UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream sediment, panned concentrate, and rock samples from the Jayaco Concession Area, Dominican Republic

by

S. P. Marsh, D. E. Detra, T. A. Roemer, and C. M. McDougal

Open-File Report 84-851

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

1984

CONTENTS

	page
Introduction	1
Geologic setting	1
Physiography	1
Method of study	2
Sample collection	2
Sample preparation	2
Sample analysis	3
Spectrographic Method	3
Chemical methods	6
RASS	7
Description of data tables	7
References cited	8

TABLES

TABLE 1. Limits of determination for spectrographic analysis of stream sediments and rocks..... 4

TABLE 2. Limits of determination for spectrographic analysis of panned concentrates..... 5

TABLE 3. Chemical methods used..... 6

TABLE 4. Spectrographic analyses of stream sediments..... 9

TABLE 5. Spectrographic analyses of panned concentrates..... 15

TABLE 6. Spectrographic analyses, chemical analyses, and descriptions, of rocks..... 21

ILLUSTRATIONS

PLATE 1. Map showing locations of stream sediment, panned concentrate, and rock samples in the Jayaco Concession Area, Dominican Republic..... in pocket

INTRODUCTION

In March of 1984 a reconnaissance geochemical survey was made in the Jayaco Concession Area, Dominican Republic. This reconnaissance survey was carried out by scientists from the U. S. Geological Survey and from the Direccion General de Mineria e Hidrocarbvuros. Upon Completion the results were forwarded to the Director General of the Direccion General de Mineria e Hidrocarburos.

The Study area was bounded north-south by 19 50'00" and 19 10'00" and east-west by 70 24'50" and 70 36'54" and included the town of Bonao on the eastern edge.

GEOLOGIC SETTING

Most of the study area is underlain by the Tireo and Duarte Formations of Bowin (1966). Observations made during this study indicate that the area of each formation consists of rocks which are dissimilar or even unrelated, and the term "terrane" is used in this report to indicate this variability.

The highest areas and steepest slopes, in the southern part of the area , are underlain by Tireo terrane, which consists mostly of volcanic, pyroclastic, and volcanogenic sedimentary rocks of intermediate composition.

The Duarte terrane forms much of the northern and southeastern parts of the area. In the study area this consists largely of the upper portions of an ophiolite (here called Rio Camu ophiolite), modified by later intrusion but otherwise well preserved. Only in the southeastern corner of the study area the Duarte terrane contain the "typical" schistose mafic volcanics. A norite body is also present in the southeastern corner of the area.

The Tireo terrane is separated from The Duarte terrane by the steeply-dipping Bonao Fault zone. Evidence for the existence of a fault zone (based on incompatability of the rocks, not on crushing) is good, but the swing of fault strike through more than 90° (Bowin, 1966) makes the presence of several faults more likely.

Tonalites intrude both the Tireo and Duarte terranes. The northern tonalite is cut by the Bonao Fault.

The Maimon Formation of Bowin (1966) is present in the northeast corner of the Jayaco area, and consists of silicic welded ash-flow tuff that probably was deposited sub-aerially.

Physiography

The study area is in the southeastern end of the Cordillera Central. Mountain slopes range from steep to precipitous with as much as 2000 meters of relief on the eastern and northern sides of the study area. The central part of the study area contains low rolling hills with moderate relief. Most of the study area is highly vegetated with woods and underbrush. Bedrock exposures are mainly confined to the stream beds of the larger streams and rivers and to road cuts. There are few roads in the study area, but numerous foot trails exist and these provide the main access. Major rivers cut the study area and most trend north-south. The Rio Blanco in the southern part of the study area is an ecception to this and flows east-west.

METHODS OF STUDY

Sample Collection

Stream sediment samples were collected from first and second order stream drainages at a sample density of approximately 1 sample per 2.5 sq km, representing drainage areas as large as 10 sq km. In this study it was only possible to sample stream drainages that were readily accessable and as a result only about 60 to 70 percent of the total area was sampled. All of the 69 stream sediment samples taken in this study were from active streams. The samples were collected perpendicular to the flow direction across the full width of the active stream channel in order to obtain an unbiased sample. The stream sediment samples were sieved on site through a 2 mm stainless steel screen, placed in a 11 X 14 cm cloth bag, and air dried.

Panned concentrate samples were taken at each stream sediment sample site. The panned concentrate samples were purposefully biased by collection from points of natural concentration of heavy minerals by stream processes. When collecting panned concentrate samples, sufficient material was sieved through a 2 mm stainless steel screen to fill a 24 cm diameter gold pan. The samples were then panned by hand at the sample site to approximately 1/100 of their original volume (approximately 115 g) and placed in 6 X 18 cm paper bags. All panned concentrate samples were air dried.

Rock samples were collected from outcrops or exposures in the vicinity of the plotted site location. Most samples were taken from areas of observed or suspected mineralization including any mines, mine dumps, or prospect pits. Altered areas and geologic structures were also sampled where observed. Most of the rock sampling was at widely spaced intervals, but close spaced sampling was done along the Bonao-Constanza road near the crest of the mountain range in the central part of the area.

Soils were taken at close spaced intervals in two areas along the Bonao-Constanza road, near the crest of the mountain range.

Sample Preparation

Stream Sediments, Rocks, and Soils -- Dried stream sediment samples were sieved through a 0.177 mm stainless steel sieve and the -0.177 mm fraction was ground to a powder for analysis. Rock and soil samples were crushed and then pulverized with ceramic plates to minus 0.15 mm.

Concentrate Samples -- The dried panned concentrate samples were seived through a 0.590 mm stainless steel sieve and the +0.590 mm fraction was discarded. The -0.590 mm fraction was further concentrated by flotation of the low density minerals (specific gravity 2.86) in bromoform. The remaining high density fraction was separated into three fractions based on degree of magnetism. After removal of magnetite by a hand magnet, the next most magnetic fraction was separated by passing the sample through an electromagnetic separator set at 0.6 amp. The intermediate fraction was separated by again passing the sample through an electromagnet, this time at setting of 2.0 amps. The resulting nonmagnetic heavy-mineral fraction at 2.0 amps was examined under a binocular microscope for mineralogy and ground to a powder for analysis.

Sample Analysis

Spectrographic Method

Following preparation, the stream sediment, rock, and soil samples were analyzed by a semiquantitative emission spectrographic method described by Grimes and Marranzino (1968) for the analysis of geologic materials. Spectrographic results were obtained by visual comparison of spectra derived from the unknown against spectra obtained from standards made from pure oxides or carbonates based on a 10 mg sample weight using a 20X comparator. Standard concentrations are geometrically spaced over any given order of magnitude of concentration and are prepared in such a way that a range of concentrations normally found in naturally occurring samples are bracketted. When comparasions are made with sample films for semiquantative use, reported values are rounded to 100, 50, 20, 10, and so forth. Those samples whose concentrations are estimated to fall between the above values are given values of 70, 30, 15, 7, and so forth (Grimes and Marranzino, 1968). The precision of the method is approximately plus or minus one reporting unit at the 83 percent confidence level and plus or minus two reporting units at the 96 percent confiedenc level (Motooka and Grimes, 1976). Values determined for the major elements (magnesium, calcium, iron, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Table 1 lists all elements analyzed and their lower limits of determination.

Following preparation, the nonmagnetic heavy-mineral-concentrate samples were analyzed by a modified version of semiquantitative emission spectrographic method described by Grimes and Marranzino (1968) for the analysis of geologic materials. Because the nonmagnetic heavy-mineral-concentrate samples contain mineral species often high in iron, titanium, calcium, and zirconium the following modification was made to eliminate the spectral interferences produced by high concentrations of these elements. Five milligrams of prepared sample were mixed with 25 milligrams of a 4:1 mixture of pure graphite powder and pure Arkansas quartz. This mixture was packed into a preformed graphite electrode and arced under the same conditions as were the stream-sediment samples. Because the initial sample weight was half that used to produce the standard spectra, all values were increased by two reporting intervals or steps (e.g. 20 ppm reported as 50 ppm) Similarly the lower limits of detection also were doubled (table 2). Spectrographic results were obtained by visual comparison of spectra derived from the unknown against spectra obtained from standards made from pure oxides or carbonates using a 20x comparator. Standards were prepared so that their concentrations encompass those in natural material. When comparisons are made with sample films for semiquantitative use, reported values are rounded to 100, 50, 20, 10, and so forth. Those samples whose concentrations are estimated to fall between the above values are arbitrarily given values of 70, 30, 15, 7, and so forth (Grimes and Marranzino, 1968). The precision of the method is approximately plus or minus one reporting unit at the 83 percent confidence level and plus or minus two reporting units at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (magnesium, calcium, iron, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Table 2 lists all elements analyzed and their lower limits of determination and the results of these analyses for 31 elements are given in table 5, columns 4-34.

TABLE 1.--Limits of determination for the spectrographic analysis of stream sediment and rocks and soils based on a 10 mg sample for samples from the Jayaco Concession Area, Dominican Republic.
[D.C. arc/spectrographic analysis by D. E. Detra.]

Column Designation	Lower Limit of Detection Sediment	Reference
Fe-pct.-s	0.05	Grimes and Marranzino (1968)
Mg-pct.-s	0.02	----------Do----------
Ca-pct.-s	0.05	----------Do----------
Ti-pct.-s	0.002	----------Do----------
Mn-ppm-s	10	----------Do----------
Ag-ppm-s	0.50	----------Do----------
As-ppm-s	200	----------Do----------
Au-ppm-s	10	----------Do----------
B-ppm-s	10	----------Do----------
Ba-ppm-s	20	----------Do----------
Be-ppm-s	1	----------Do----------
Bi-ppm-s	10	----------Do----------
Cd-ppm-s	20	----------Do----------
Co-ppm-s	5	----------Do----------
Cr-ppm-s	10	----------Do----------
Cu-ppm-s	5	----------Do----------
La-ppm-s	20	----------Do----------
Mo-ppm-s	5	----------Do----------
Nb-ppm-s	20	----------Do----------
Ni-ppm-s	5	----------Do----------
Pb-ppm-s	10	----------Do----------
Sb-ppm-s	100	----------Do----------
Sc-ppm-s	5	----------Do----------
Sn-ppm-s	10	----------Do----------
Sr-ppm-s	100	----------Do----------
V-ppm-s	10	----------Do----------
W-ppm-s	50	----------Do----------
Y-ppm-s	10	----------Do----------
Zn-ppm-s	200	----------Do----------
Zr-ppm-s	10	----------Do----------
Th-ppm-s	100	----------Do----------

TABLE 2.--Limits of determination for the spectrographic analysis of panned concentrates based on a 5-mg sample

[D.C. arc/spectrographic analysis by D. E. Detra]

Column Designation	Lower Limit of Detection Panned Concentrates	Reference
Fe-pct-s	0.1	Grimes and Marranzino (1968)
Mg-pct-s	0.05	----------Do----------
Ca-pct-s	0.1	----------Do----------
Ti-pct-s	0.005	----------Do----------
Mn-ppm-s	20	----------Do----------
Ag-ppm-s	1	----------Do----------
As-ppm-s	500	----------Do----------
Au-ppm-s	20	----------Do----------
B-ppm-s	20	----------Do----------
Ba-ppm-s	50	----------Do----------
Be-ppm-s	2	----------Do----------
Bi-ppm-s	20	----------Do----------
Cd-ppm-s	50	----------Do----------
Co-ppm-s	10	----------Do----------
Cr-ppm-s	20	----------Do----------
Cu-ppm-s	10	----------Do----------
La-ppm-s	50	----------Do----------
Mo-ppm-s	10	----------Do----------
Nb-ppm-s	50	----------Do----------
Ni-ppm-s	10	----------Do----------
Pb-ppm-s	20	----------Do----------
Sb-ppm-s	200	----------Do----------
Sc-ppm-s	10	----------Do----------
Sn-ppm-s	20	----------Do----------
Sr-ppm-s	200	----------Do----------
V-ppm-s	20	----------Do----------
W-ppm-s	100	----------Do----------
Y-ppm-s	20	----------Do----------
Zn-ppm-s	500	----------Do----------
Zr-ppm-s	20	----------Do----------
Th-ppm-s	200	----------Do----------

All analytical results, sample descriptions, and locations were entered into a computerized rock analyses storage system (RASS) (VanTrump and Miesch, 1977).

Chemical Methods

In addition to the semiquantative spectrographic analyses the rock and soil samples were analyzed for 10 elements by various wet chemical methods. Table 3 lists the elements analyzed, the methods, the determination limis, the analyst, and the reference for the method used.

Table 3.--Summary of elements analyzed, analytical method, lower limits of detection, analyst, and analytical reference for samples from the Jayaco Concession Area, Dominican Republic.

Element or constituent determined	Analytical Method	Determination limit[1] (micrograms/ grams or ppm	Analyst	Reference
Gold (Au)	Atomic Absorption	0.05	T. A. Roemer and Sharkey	Thompson and J. others, 1968
Mercury (Hg)	Instrumental (Jerome)	0.02	.....Do.....	Modification of McNerney and others, 1972 and Vaughn and McCarthy, 1964
Arsenic (As)	Colormetric	10.0	.....Do.....	Ward, 1963
Antimony (Sb)	Atomic Absorption	2.0	.....Do.....	Welsch, 1975
Zinc (Zn)	.....Do.....	5.0	.....Do.....	Modification of Viets, 1978
Bismuth (Bi)	.....Do.....	1.0	.....Do.....	.....Do.....
Cadmium (Cd)	.....Do.....	0.05	.....Do.....	.....Do.....
Copper (Cu)	.....Do.....	5.0	.....Do.....	.....Do.....
Lead (Pb)	.....Do.....	5.0	.....Do.....	.....Do.....
Silver (Ag)	.....Do.....	0.05	.....Do.....	.....Do.....

1/The determination limit is dependent upon sample weight. Given limits imply use of sample weight required by method. Higher limits of determination result from using less than required sample weight.

RASS

Upon completion of all analytical work, the geological and analytical data fro the samples was entered into a computer-based file called RASS (Rock Analysis Storage System). Any or all of this information may be retrieved and converted to a standard form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1976)

DESCRIPTION OF DATA TABLES

Tables 4, 5, and 6 list the analyses for the stream sediment, panned concentrate, and rock or soil samples. For the tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location map (plate 1). Duplicate numbers indicate more than one sample taken at a site. Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; an "aa" indicates atomic absorption analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element shoen in tables 1, 2, and 3. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination.

In the table for the rock data (table 6), each analysis is followed by a brief description of the rock or soil sample

REFERENCES CITED

Bowin, C. O., 1966, Geology of Central Dominican Republic: Geologic Society of America Memoir 98, p. 11-84.

Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.

McNerney, J, J., Buseck, P. R., and Hanson, R. C., 1972, Mercury detection by means of thin gold films: Science, v. 178, p. 611-612.

Thompson, C. E., Nakagawa, H. M., and Van Sickle, G. H., 1968, Rapid analysis or gold in geologic materials, in Geological Survey Research 1968: U.S. Geological Survey Professional Paper 600-B, p. B130-B132.

VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC System for management and statistical reduction of Geochemical Data: Computers and Geosciences, v. 3, no. 3, p. 475-488.

Vaughn, W. W., and McCarthy, J. H., Jr., 1964, An instrumental technique for the determination of submicrogram concentrations of mercury in soils, rocks, and gas, in Geological Survey Research 1964: U.S. Geological Survey Professional Paper 501-D, p. D123-D127

Viets, J. G., 1978, Determination of silver, bismuth, cadmium, copper, lead, and zinc in geological materials by atomic-absorption spectrometry with tricaprylymethylammonium chloride: Analytical Chemistry, v. 52, p. 1097-1101

Ward, f. n., Lakin, H. W., Canney, F. C., and others, 1963, Analytical methods used in geochemical exploration by the U.S. Geological Survey: U.S. Geological Survey Bulletin 1152, 100 p.

Welsch, E. P. , and Chao, T. T., 1975, Determination of trace amounts of antimony in geological materials by atomic-absorption spectrometry: Analytica Chimica Acta, v. 76, p. 65-69.

Table 4.--Spectrographic analyses of stream sediment samples from the Jayaco Concession Area, Dominican Republic
[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
Samples from the Bonao quadrangle														
ABNS0009	18 51 42	70 27 12	20	5.0	5.0	>1.0	2,000	N	N	N	<10	30	N	N
ABNS0010	18 51 55	70 26 59	10	5.0	3.0	.5	1,500	N	N	N	<10	100	<1	N
ABNS0011	18 51 54	70 27 24	10	3.0	1.5	1.0	1,500	N	N	N	<10	100	<1	N
ABNS0012	18 52 17	70 26 18	15	10.0	3.0	1.0	2,000	N	N	N	<10	50	N	N
ABNS0013	18 50 20	70 29 21	3	1.5	.7	.2	1,000	1.5	N	N	15	1,000	1	N
ABNS0014	18 50 35	70 29 12	7	3.0	1.0	1.0	1,000	N	N	N	10	300	<1	N
ABNS0015	18 53 14	70 28 4	7	7.0	3.0	1.0	1,500	<.5	N	N	20	1,000	<1	N
ABNS0016	18 54 16	70 27 33	7	7.0	3.0	1.0	1,500	N	N	N	15	300	<1	N
ABNS0017	18 55 31	70 27 9	10	7.0	2.0	1.0	1,500	N	N	N	10	300	<1	N
ABNS0018	18 55 55	70 26 56	10	3.0	1.0	1.0	1,500	N	N	N	10	300	<1	N
ABNS0019	18 56 26	70 26 21	7	5.0	1.0	1.0	1,500	N	N	N	10	200	<1	N
ABNS0020	18 57 36	70 26 53	5	2.0	.7	.7	1,000	N	N	N	10	300	1	N
ABNS0049	18 59 55	70 27 2	7	3.0	.5	1.0	1,000	N	N	N	<10	500	<1	N
ABNS0050	18 56 34	70 27 11	10	5.0	1.5	>1.0	1,500	N	N	N	<10	200	<1	N
BBNS0002	18 51 36	70 29 56	5	2.0	1.5	.5	1,000	N	N	N	15	500	1	N
BBNS0003	18 51 42	70 29 57	10	3.0	1.5	>1.0	1,500	N	N	N	10	300	1	N
BBNS0001	18 52 30	70 25 56	20	5.0	2.0	>1.0	2,000	N	N	N	<10	50	N	N
Samples from the Constanza quadrangle														
ACNS0056	18 54 41	70 37 46	7	5.0	1.0	>1.0	2,000	N	N	N	10	50	N	N
ACNS0057	18 54 45	70 37 47	10	5.0	1.5	1.0	2,000	N	N	N	10	<20	<1	N
ACNS0022	18 56 18	70 35 1	5	.2	.3	>1.0	1,000	N	N	N	10	300	1	N
ACNS0023	18 57 20	70 34 50	7	3.0	1.5	1.0	1,500	N	N	N	10	200	<1	N
ACNS0024	18 57 17	70 35 3	7	2.0	1.0	1.0	2,000	N	N	N	10	70	<1	N
ACNS0025	18 56 29	70 34 7	20	.7	.7	>1.0	2,000	<.5	N	N	<10	500	<1	N
ACNS0026	19 59 52	70 34 14	10	1.0	2.0	>1.0	1,500	N	N	N	10	100	1	N
ACNS0027	19 57 2	70 37 12	10	5.0	3.0	>1.0	1,500	<.5	N	N	10	200	<1	N
ACNS0028	19 58 54	70 36 37	5	.5	.7	.7	1,000	N	N	N	10	1,000	1	N
ACNS0029	19 59 17	70 36 6	5	1.5	.5	1.0	1,500	N	N	N	10	1,000	1	N
BCNS0006	18 56 32	70 33 36	7	1.5	1.0	.7	2,000	N	N	N	10	200	1	N
Samples from the Fantino quadrangle														
AFTS0004	19 1 10	70 27 37	5	3.0	.5	.5	1,500	N	N	N	10	300	<1	N
AFTS0021	18 54 2	70 28 31	10	5.0	2.0	>1.0	1,500	N	N	N	<10	200	1	N
AFTS0043	19 8 36	70 28 43	15	7.0	3.0	>1.0	2,000	N	N	N	10	70	<1	N
AFTS0044	19 7 27	70 27 59	15	5.0	5.0	>1.0	2,000	N	N	N	10	70	<1	N
AFTS0045	19 5 8	70 26 46	>20	7.0	1.5	>1.0	5,000	N	<200	N	10	<20	N	N
AFTS0046	19 4 15	70 27 39	10	7.0	10.0	>1.0	2,000	N	N	N	<10	N	N	N
AFTS0047	19 2 5	70 27 38	10	5.0	1.0	1.0	1,500	N	N	N	<10	500	<1	N
AFTS0048	19 1 51	70 27 30	1	5.0	.3	1.0	2,000	<.5	N	N	<10	300	1	N
AFTS0051	19 4 32	70 29 45	10	3.0	2.0	1.0	2,000	N	N	N	<10	200	<1	N
AFTS0052	19 4 39	70 29 51	10	7.0	2.0	>1.0	2,000	N	N	N	<10	200	<1	N

Table 4.--Spectrographic analyses of stream sediment samples from the Jayaco Concession Area, Dominican Republic

Sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
Samples from the Bonao quadrangle--continued																
ABNS0009	N	50	500	100	N	N	N	100	10	N	50	N	100	1,000	N	20
ABNSC010	N	30	700	70	N	N	N	200	15	N	30	N	150	500	N	15
AdNS0011	N	30	200	70	N	N	N	70	30	N	30	N	150	500	N	30
ABNS0012	N	50	2,000	50	20	N	N	300	10	N	50	N	100	500	N	20
ABNS0013	N	10	100	70	20	N	<20	50	70	N	15	N	N	70	N	20
ABNS0014	N	30	150	70	N	N	N	50	10	N	20	N	100	200	N	20
ABNS0015	N	30	1,000	50	N	N	N	100	10	N	50	N	200	300	N	20
ABNS0016	N	30	1,000	50	N	N	N	150	10	N	30	N	200	200	N	15
ABNS0017	N	30	1,500	50	N	N	N	150	10	N	50	N	200	300	N	15
ABNS0018	N	30	700	70	20	N	N	70	N	N	20	N	200	300	N	15
ABNSC019	N	30	500	100	N	N	N	100	10	N	30	N	100	200	N	20
ABNS0020	N	15	150	20	20	N	N	50	N	N	15	N	200	200	N	15
ABNS0049	N	20	300	100	20	N	N	70	15	N	20	N	100	200	N	15
ABNS0050	N	20	700	70	20	N	N	100	15	N	30	N	150	300	N	20
BBNS0002	N	20	200	30	N	N	N	50	10	N	20	N	200	200	N	15
BBNS0003	N	30	2,000	100	N	N	N	100	15	N	20	N	300	500	N	20
BBNS0001	N	50	1,500	70	20	N	N	200	N	N	70	N	N	1,500	N	20
Samples from the Constanza quadrangle--continued																
ACNS0056	N	30	700	200	N	N	N	200	10	N	50	N	N	500	N	20
ACNS0057	N	30	700	150	N	N	N	150	N	N	30	N	N	300	N	20
ACNS0022	N	10	100	10	70	N	<20	10	10	N	10	N	100	200	N	50
ACNS0023	N	30	700	100	20	N	N	150	15	N	30	N	200	300	N	20
ACNS0024	N	50	500	200	N	N	N	100	10	N	30	N	150	200	N	20
ACNS0025	N	20	1,000	20	30	N	<20	70	10	N	20	N	100	700	N	50
ACNS0026	N	30	700	50	20	N	N	70	10	N	30	N	300	200	N	30
ACNS0027	N	30	700	100	20	N	N	200	10	N	50	N	200	300	N	20
ACNS0028	N	10	15	<5	20	N	N	10	N	N	10	N	100	50	N	50
ACNSC029	N	20	70	20	N	N	N	20	N	N	15	N	100	100	N	50
BCNS0006	N	30	700	70	N	N	N	100	15	N	30	N	150	200	N	15
Samples from the Fantino quadrangle--continued																
AFTS0004	N	30	200	100	N	N	N	70	15	N	20	N	N	200	N	15
AFTS0021	N	30	1,000	70	20	N	N	500	N	N	20	N	200	150	N	20
AFTS0043	N	100	3,000	150	N	N	N	1,500	10	N	50	N	200	500	N	30
AFTS0044	N	50	1,000	200	N	N	N	200	10	N	50	N	100	500	N	50
AFTS0045	N	300	>5,000	50	N	N	N	5,000	10	N	30	N	N	200	N	20
AFTS0046	N	30	1,000	150	N	N	N	200	N	N	70	N	100	500	N	50
AFTS0047	N	30	500	200	N	N	N	100	70	N	30	N	100	300	N	20
AFTS0048	N	20	300	100	N	N	N	50	20	N	20	N	100	200	N	20
AFTS0051	N	30	500	100	20	N	N	100	10	N	30	N	100	300	N	20
AFTS0052	N	30	700	200	20	N	N	200	10	N	50	N	200	500	N	30

Table 4.--Spectrographic analyses of stream sediment samples from the Jayaco Concession Area, Dominican Republic

Sample	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SB-P
Samples from the Bonao quadrangle--continued													
ABNS0009	N	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0010	N	30	N	--	--	--	--	--	--	--	--	--	--
ABNS0011	N	70	N	--	--	--	--	--	--	--	--	--	--
ABNS0012	N	70	N	--	--	--	--	--	--	--	--	--	--
ABNS0013	2,000	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0014	500	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0015	N	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0016	N	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0017	N	70	N	--	--	--	--	--	--	--	--	--	--
ABNS0018	N	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0019	N	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0020	N	50	N	--	--	--	--	--	--	--	--	--	--
ABNS0049	N	70	N	--	--	--	--	--	--	--	--	--	--
ABNS0050	N	70	N	--	--	--	--	--	--	--	--	--	--
BBNS0002	N	50	N	--	--	--	--	--	--	--	--	--	--
BBNS0003	300	50	N	--	--	--	--	--	--	--	--	--	--
BBNS0001	N	50	N	--	--	--	--	--	--	--	--	--	--
Samples from the Constanza quadrangle--continued													
ACNS0056	N	50	N	--	--	--	--	--	--	--	--	--	--
ACNS0057	N	30	N	--	--	--	--	--	--	--	--	--	--
ACNS0022	N	700	N	--	--	--	--	--	--	--	--	--	--
ACNS0023	N	70	N	--	--	--	--	--	--	--	--	--	--
ACNS0024	N	50	N	--	--	--	--	--	--	--	--	--	--
ACNS0025	N	500	N	--	--	--	--	--	--	--	--	--	--
ACNS0026	N	150	N	--	--	--	--	--	--	--	--	--	--
ACNS0027	N	50	N	--	--	--	--	--	--	--	--	--	--
ACNS0028	N	700	N	--	--	--	--	--	--	--	--	--	--
ACNS0029	N	200	N	--	--	--	--	--	--	--	--	--	--
BCNS0006	N	70	N	--	--	--	--	--	--	--	--	--	--
Samples from the Fantino quadrangle--continued													
AFTS0004	N	70	N	--	--	--	--	--	--	--	--	--	--
AFTS0021	N	100	N	--	--	--	--	--	--	--	--	--	--
AFTS0043	N	50	N	--	--	--	--	--	--	--	--	--	--
AFTS0044	N	50	N	--	--	--	--	--	--	--	--	--	--
AFTS0045	200	10	N	--	--	--	--	--	--	--	--	--	--
AFTS0046	N	30	N	--	--	--	--	--	--	--	--	--	--
AFTS0047	N	50	N	--	--	--	--	--	--	--	--	--	--
AFTS0048	N	70	N	--	--	--	--	--	--	--	--	--	--
AFTS0051	N	70	N	--	--	--	--	--	--	--	--	--	--
AFTS0052	N	70	N	--	--	--	--	--	--	--	--	--	--

Table 4.--Spectrographic analyses of stream sediment samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
BFTS0004	18 54 18	70 29 45	10	7.0	2.0	1.0	1,500	N	N	N	<10	200	<1	N
BFTS0005	18 54 18	70 29 45	15	7.0	2.0	1.0	1,500	N	N	N	<10	150	<1	N
BFTS0041	19 1 10	70 29 54	7	5.0	1.0	1.0	2,000	N	N	N	10	100	<1	N
BFTS0042	19 4 40	70 29 54	10	5.0	1.5	1.0	2,000	N	N	N	<10	100	1	N
EFTS0011	19 6 10	70 26 2	5	1.5	3.0	.5	1,000	N	N	N	10	70	<1	N
EFTS0016	19 9 44	70 29 43	>20	1.0	.5	.7	3,000	N	N	N	10	<20	<1	N
EFTS0020	19 9 33	70 29 51	7	2.0	3.0	1.0	2,000	N	N	N	10	200	<1	N
Samples from the Jarabacoa quadrangle--continued														
AJBS0005	19 0 2	70 33 7	5	1.0	.7	1.0	1,000	N	N	N	<10	100	1	N
AJBS0006	19 0 48	70 32 27	20	2.0	2.0	>1.0	2,000	N	N	N	<10	70	<1	N
AJBS0007	19 0 39	70 32 10	10	2.0	1.5	>1.0	2,000	N	N	N	<10	150	<1	N
AJBS0008	19 0 41	70 34 10	15	.7	1.0	>1.0	1,000	N	N	N	10	100	1	N
AJBS0053	19 5 10	70 30 25	7	5.0	2.0	1.0	2,000	N	N	N	10	150	<1	N
AJBS0054	19 5 47	70 31 1	1	5.0	1.0	1.0	3,000	N	N	N	<10	200	<1	N
AJBS0055	19 6 0	70 31 8	20	5.0	1.5	1.0	2,000	N	N	N	<10	100	<1	N
AJBS0030	19 0 47	70 35 17	10	1.0	2.0	1.0	1,000	N	N	N	10	500	<1	N
AJBS0031	19 7 36	70 35 47	10	5.0	2.0	.7	1,500	N	N	N	<10	200	<1	N
AJBS0032	19 9 12	70 35 50	5	1.0	2.0	.5	700	N	N	N	10	500	<1	N
AJBS0034	19 6 27	70 35 7	15	7.0	2.0	1.0	1,500	N	N	N	<10	70	N	N
AJBS0035	19 6 37	70 33 35	20	10.0	7.0	>1.0	2,000	N	N	N	<10	70	N	N
AJBS0036	19 6 34	70 33 44	15	5.0	1.5	1.0	2,000	N	N	N	<10	70	N	N
AJBS0037	19 6 59	70 34 12	15	5.0	2.0	1.0	2,000	N	N	N	10	200	N	N
AJBS0038	19 9 21	70 34 7	15	7.0	5.0	>1.0	1,500	N	N	N	<10	100	<1	N
AJBS0039	19 6 56	70 33 55	10	7.0	3.0	.7	1,500	N	N	N	<10	200	<1	N
AJBS0040	19 9 35	70 33 7	15	7.0	7.0	>1.0	2,000	N	N	N	<10	50	<1	N
AJBS0041	19 7 57	70 32 6	20	2.0	5.0	>1.0	1,500	N	N	N	<10	100	<1	N
AJBS0042	19 7 30	70 32 17	15	7.0	5.0	1.0	1,500	N	N	N	<10	70	N	N
BJBS0007	19 4 0	70 35 7	7	1.0	1.0	>1.0	1,500	N	N	N	<10	200	<1	N
BJBS0008	19 4 4	70 34 7	7	1.0	.7	1.0	1,500	N	N	N	<10	200	1	N
BJBS0009	19 4 9	70 34 4	20	1.5	1.0	>1.0	3,000	N	N	N	<10	30	<1	N
BJBS0010	19 4 17	70 35 47	7	1.0	1.5	>1.0	2,000	N	N	N	10	200	<1	N
BJBS0011	19 4 26	70 35 52	7	1.0	1.5	1.0	1,000	N	N	N	10	200	1	N
EJBS0033	19 3 55	70 37 15	10	1.0	1.5	1.0	2,000	N	N	N	<10	300	<1	N

Table 4.--Spectrographic analyses of stream sediment samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
BFTSC004	N	30	700	200	20	N	N	100	N	N	50	N	200	200	N	20
BFTSC005	N	30	1,000	300	20	N	N	150	15	N	50	N	300	300	N	20
BFTS0041	N	20	500	500	20	N	N	100	N	N	30	N	100	300	N	30
BFTS0042	N	20	500	500	N	N	N	100	10	N	30	N	200	300	N	30
EFTS0011	N	30	5,000	30	N	N	N	100	10	N	50	N	300	300	N	30
EFTS0016	N	1,000	>5,000	30	N	N	N	5,000	10	N	30	N	N	200	N	15
EFTS0020	N	50	5,000	70	N	N	N	1,000	10	N	30	N	200	200	N	20
Samples from the Jarabacoa quadrangle--continued																
AJBS0005	N	20	100	50	N	N	<20	50	10	N	15	N	200	200	N	15
AJBS0006	N	50	500	500	20	N	20	200	70	N	30	N	300	700	N	30
AJBS0007	N	30	100	150	20	N	N	70	10	N	30	N	300	300	N	20
AJBS0008	N	20	200	30	20	N	<20	30	15	N	20	N	200	700	N	20
AJBS0053	N	30	500	500	N	N	N	100	N	N	30	N	150	300	N	50
AJBS0054	N	30	500	700	N	N	N	150	10	N	30	N	100	500	N	30
AJBS0055	N	30	2,000	100	N	N	N	200	10	N	70	N	100	700	N	10
AJBS0030	N	20	50	20	30	N	N	10	N	N	30	N	200	300	N	30
AJBS0031	N	30	700	50	30	N	N	100	N	N	30	N	200	200	N	15
AJBS0032	N	20	200	30	N	N	N	50	N	N	20	N	300	150	N	10
AJBS0034	N	50	3,000	200	N	N	N	300	N	N	50	N	100	200	N	20
AJBS0035	N	50	2,000	500	N	N	N	200	10	N	50	N	300	500	N	20
AJBS0036	N	50	700	200	N	N	N	200	10	N	50	N	N	300	N	20
AJBS0037	N	50	500	200	N	N	N	100	10	N	30	N	100	300	N	20
AJBS0038	N	70	5,000	100	N	N	N	1,000	10	N	30	N	100	200	N	20
AJBS0039	N	30	1,500	50	N	N	N	500	10	N	20	N	200	200	N	10
AJBS0040	N	50	2,000	200	N	N	N	500	10	N	50	N	200	300	N	30
AJBS0041	N	50	1,000	300	20	N	N	200	10	N	50	N	300	500	N	50
AJBS0042	N	50	2,000	150	20	N	N	300	10	N	30	N	200	300	N	15
BJBS0007	N	20	200	50	N	N	<20	50	10	N	20	N	200	300	N	20
BJBS0008	N	30	100	30	N	N	N	20	10	N	20	N	150	200	N	15
BJBS0009	N	70	1,500	200	N	N	N	200	15	N	50	N	100	500	N	20
BJBS0010	N	20	100	30	30	N	N	50	15	N	20	N	300	200	N	20
BJBS0011	N	20	200	50	20	N	N	20	15	N	20	N	300	200	N	20
EJBS0033	N	30	300	20	30	N	<20	70	N	N	30	N	300	500	N	20

Table 4.--Spectrographic analyses of stream sediment samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SB-P
BFTS0004	N	50	N	--	--	--	--	--	--	--	--	--	--
BFTS0005	N	50	N	--	--	--	--	--	--	--	--	--	--
BFTS0041	<200	70	N	--	--	--	--	--	--	--	--	--	--
BFTS0042	<200	50	N	--	--	--	--	--	--	--	--	--	--
EFTS0011	N	30	N	--	--	--	--	--	--	--	--	--	--
EFTS0016	N	50	N	--	--	--	--	--	--	--	--	--	--
EFTS0020	N	50	N	--	--	--	--	--	--	--	--	--	--
Samples from the Jarabacoa quadrangle--continued													
AJBS0005	N	100	N	--	--	--	--	--	--	--	--	--	--
AJBS0006	N	200	N	--	--	--	--	--	--	--	--	--	--
AJBS0007	N	70	N	--	--	--	--	--	--	--	--	--	--
AJBS0008	N	100	N	--	--	--	--	--	--	--	--	--	--
AJBS0053	N	50	N	--	--	--	--	--	--	--	--	--	--
AJBS0054	N	50	N	--	--	--	--	--	--	--	--	--	--
AJBS0055	N	30	N	--	--	--	--	--	--	--	--	--	--
AJBS0030	N	300	N	--	--	--	--	--	--	--	--	--	--
AJBS0031	N	70	N	--	--	--	--	--	--	--	--	--	--
AJBS0032	N	100	N	--	--	--	--	--	--	--	--	--	--
AJBS0034	N	30	N	--	--	--	--	--	--	--	--	--	--
AJBS0035	N	30	N	--	--	--	--	--	--	--	--	--	--
AJBS0036	N	30	N	--	--	--	--	--	--	--	--	--	--
AJBS0037	N	50	N	--	--	--	--	--	--	--	--	--	--
AJBS0038	N	70	N	--	--	--	--	--	--	--	--	--	--
AJBS0039	N	20	N	--	--	--	--	--	--	--	--	--	--
AJBS0040	N	50	N	--	--	--	--	--	--	--	--	--	--
AJBS0041	N	70	N	--	--	--	--	--	--	--	--	--	--
AJBS0042	N	30	N	--	--	--	--	--	--	--	--	--	--
BJBS0007	N	100	N	--	--	--	--	--	--	--	--	--	--
BJBS0008	N	70	N	--	--	--	--	--	--	--	--	--	--
BJBS0009	N	50	N	--	--	--	--	--	--	--	--	--	--
BJBS0010	N	200	N	--	--	--	--	--	--	--	--	--	--
BJBS0011	N	100	N	--	--	--	--	--	--	--	--	--	--
EJBS0033	N	100	N	--	--	--	--	--	--	--	--	--	--

Table 5.--Spectrographic analyses of panned concentrate samples from the Jayaco Concession Area, Dominican Republic
[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
Samples from the Bonao quadrangle														
ABNC0009	18 51 42	70 27 12	10.0	.30	7.00	>2.0	500	N	N	N	20	3,000	N	<20
ABNC0010	18 51 55	70 26 59	1.5	.70	3.00	>2.0	300	N	N	N	20	500	N	N
ABNC0011	18 51 54	70 27 24	3.0	.70	3.00	>2.0	700	N	N	N	20	3,000	N	N
ABNC0012	18 52 17	70 26 18	1.0	.20	2.00	2.0	200	N	N	N	<20	150	N	N
ABNC0013	18 50 20	70 29 21	7.0	.20	2.00	2.0	500	20	N	N	20	>10,000	<2	N
ABNC0014	18 50 35	70 29 12	2.0	.50	10.00	2.0	700	N	N	N	30	>10,000	<2	N
ABNC0015	18 53 14	70 28 4	2.0	.70	5.00	.3	300	N	N	N	50	>10,000	<2	N
ABNC0016	18 54 10	70 27 33	7.0	.70	7.00	1.0	300	<1	N	N	150	>10,000	N	N
ABNC0017	18 55 31	70 27 9	2.0	1.50	7.00	>2.0	500	N	N	N	100	>10,000	N	N
ABNC0018	18 55 55	70 26 50	1.5	.50	2.00	>2.0	300	30	N	70	20	5,000	N	N
ABNC0019	18 56 26	70 26 21	5.0	2.00	7.00	>2.0	1,000	N	N	N	100	2,000	<2	N
ABNC0020	18 57 36	70 26 53	2.0	2.00	5.00	>2.0	700	N	N	N	20	>10,000	<2	N
ABNC0049	18 59 55	70 27 2	10.0	.20	1.00	>2.0	200	2	N	N	<20	>10,000	N	N
ABNC0050	18 58 34	70 27 11	15.0	.15	1.50	>2.0	200	N	N	N	<20	>10,000	<2	N
ABNC0042	19 7 30	70 32 17	1.0	.70	5.00	>2.0	500	N	N	N	<20	200	<2	N
BBNC0002	18 51 36	70 29 56	3.0	1.00	10.00	>2.0	700	N	N	N	300	>10,000	2	N
BBNC0003	18 51 42	70 29 57	20.0	.30	5.00	1.0	300	<1	N	N	150	>10,000	N	N
BBNC0001	18 52 30	70 25 56	1.5	.20	3.00	1.5	300	N	N	N	30	100	<2	N
Samples from the Constanza quadrangle														
ACNC0056	18 54 41	70 37 46	2.0	1.00	10.00	1.5	500	N	N	N	50	100	N	N
ACNC0057	18 54 45	70 37 47	3.0	1.50	5.00	2.0	700	N	N	N	5,000	<50	<2	N
ACNC0022	18 56 18	70 35 1	.5	.05	.15	>2.0	200	N	N	N	<20	300	<2	N
ACNC0023	18 57 20	70 34 50	2.0	.50	7.00	>2.0	500	N	N	N	<20	>10,000	<2	N
ACNC0024	18 57 17	70 35 3	30.0	.20	5.00	>2.0	300	N	N	N	<20	10,000	N	N
ACNC0025	18 58 29	70 34 7	.3	.07	.30	1.5	300	N	N	N	<20	1,000	<2	N
ACNC0026	19 59 52	70 34 14	2.0	.10	2.00	>2.0	500	N	N	N	<20	150	<2	N
ACNC0027	19 57 2	70 37 12	3.0	1.00	7.00	>2.0	700	N	N	N	<20	3,000	<2	N
ACNC0028	19 58 54	70 36 6	.5	<.05	.50	2.0	300	N	N	N	<20	500	N	N
ACNC0029	19 59 17	70 36 37	.7	<.05	.20	1.0	200	N	N	N	<20	500	N	N
BCNC0006	18 56 32	70 33 36	2.0	.50	.70	>2.0	700	N	N	N	20	5,000	<2	N
Samples from the Fantino quadrangle														
AFTC0004	19 1 10	70 27 37	15.0	.30	7.00	>2.0	500	3	N	N	20	>10,000	<2	N
AFTC0043	19 8 36	70 28 43	1.5	.70	7.00	1.5	700	N	N	N	30	100	N	N
AFTC0044	19 7 27	70 27 59	1.0	.30	5.00	>2.0	500	N	N	N	30	200	<2	N
AFTC0045	19 5 8	70 26 46	1.0	.30	7.00	2.0	1,000	N	N	N	20	<50	N	N
AFTC0046	19 4 15	70 27 39	2.0	1.50	5.00	>2.0	1,000	N	N	N	<20	500	<2	N

Table 5.--Spectrographic analyses of panned concentrate samples from the Jayaco Concession Area, Dominican Republic

Sample	S-CO	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
Samples from the Bonao quadrangle--continued																
ABNC0009	N	150	70	200	N	N	<50	50	20	N	30	N	200	300	N	150
ABNC0010	N	20	100	15	N	N	<50	30	N	N	20	N	200	150	N	100
ABNC0011	N	30	70	50	N	N	50	20	N	N	50	N	N	500	N	150
ABNC0012	N	N	100	<10	N	N	N	20	N	N	70	N	500	100	N	150
ABNC0013	700	N	20	2,000	50	N	150	15	700	N	20	N	2,000	50	N	200
ABNC0014	N	10	50	50	N	N	<50	15	100	N	20	N	1,000	200	N	70
ABNC0015	<50	10	150	50	N	N	N	30	1,000	N	10	N	5,000	100	N	70
ABNC0016	N	20	200	100	70	15	N	70	700	N	15	N	2,000	150	N	50
ABNC0017	N	10	200	20	150	N	N	50	20	N	20	N	1,000	200	N	70
ABNC0018	N	10	300	15	70	N	70	20	N	N	30	200	300	200	N	50
ABNC0019	N	30	700	70	N	N	<50	100	300	N	50	N	N	700	N	50
ABNC0020	N	10	700	70	N	N	50	50	N	N	70	N	1,000	300	N	150
ABNC0049	50	50	200	200	50	N	70	50	150	N	100	N	3,000	700	N	50
ABNC0050	N	70	70	100	N	N	<50	150	700	N	20	N	2,000	200	N	50
ABNC0042	N	N	100	20	N	N	50	30	N	N	10	N	200	200	N	20
BBNC0002	N	20	150	30	N	N	150	20	20	N	20	N	700	200	N	200
BBNC0003	N	70	70	200	N	N	N	50	2,000	N	15	N	1,500	150	N	50
BBNC0001	N	N	70	10	N	N	N	20	N	N	20	N	500	70	N	100
Samples from the Constanza quadrangle--continued																
ACNC0056	N	10	300	30	N	N	N	70	300	N	20	N	N	500	N	20
ACNC0057	N	20	500	50	N	N	N	100	200	N	30	N	N	300	N	20
ACNC0022	N	N	<20	N	N	N	50	10	N	N	70	N	N	70	N	1,000
ACNC0023	N	N	70	100	N	N	150	15	700	N	50	N	1,000	700	N	100
ACNC0024	N	150	50	70	N	N	70	200	150	N	30	N	200	500	N	100
ACNC0025	N	N	<20	N	N	N	70	10	N	N	100	N	N	100	N	3,000
ACNC0026	N	15	70	10	N	N	100	20	N	N	70	N	200	300	N	150
ACNC0027	N	20	500	1,000	N	N	100	30	20,000	N	50	N	500	10,000	N	100
ACNC0028	N	N	20	N	N	N	N	30	N	N	100	N	N	70	N	>5,000
ACNC0029	N	N	N	N	N	N	70	30	N	N	100	N	N	100	N	>5,000
BCNC0006	N	10	100	10	N	N	50	30	30	N	70	N	200	300	N	1,000
Samples from the Fantino quadrangle--continued																
AFTC0004	<50	30	150	150	150	N	200	20	1,500	N	150	N	2,000	700	N	200
AFTC0043	N	10	150	20	N	N	N	150	20	N	10	N	200	300	N	20
AFTC0044	N	15	150	20	N	N	N	50	N	N	10	N	300	200	N	30
AFTC0045	N	20	700	N	N	N	N	200	N	N	N	N	200	100	N	30
AFTC0046	N	15	200	50	N	N	N	100	N	N	30	100	N	500	N	100

Table 5.--Spectrographic analyses of panned concentrate samples from the Jayaco Concession Area, Dominican Republic

Sample	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P
Samples from the Bonao quadrangle--continued												
ABNC0009	N	>2,000	500	--	--	--	--	--	--	--	--	--
ABNC0010	N	>2,000	<200	--	--	--	--	--	--	--	--	--
ABNC0011	N	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0012	N	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0013	>20,000	500	N	--	--	--	--	--	--	--	--	--
ABNC0014	<500	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0015	3,000	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0016	N	700	N	--	--	--	--	--	--	--	--	--
ABNC0017	N	2,000	N	--	--	--	--	--	--	--	--	--
ABNC0018	N	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0019	N	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0020	N	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0049	7,000	200	N	--	--	--	--	--	--	--	--	--
ABNC0050	700	>2,000	N	--	--	--	--	--	--	--	--	--
ABNC0042	N	>2,000	N	--	--	--	--	--	--	--	--	--
BBNC0002	N	2,000	N	--	--	--	--	--	--	--	--	--
BBNC0003	3,000	>2,000	N	--	--	--	--	--	--	--	--	--
BBNC0001	N	>2,000	N	--	--	--	--	--	--	--	--	--
Samples from the Constanza quadrangle--continued												
ACNC0056	N	1,000	N	--	--	--	--	--	--	--	--	--
ACNC0057	N	200	N	--	--	--	--	--	--	--	--	--
ACNC0022	N	>2,000	300	--	--	--	--	--	--	--	--	--
ACNC0023	N	>2,000	N	--	--	--	--	--	--	--	--	--
ACNC0024	N	>2,000	N	--	--	--	--	--	--	--	--	--
ACNC0025	N	>2,000	1,500	--	--	--	--	--	--	--	--	--
ACNC0026	N	>2,000	N	--	--	--	--	--	--	--	--	--
ACNC0027	1,500	>2,000	N	--	--	--	--	--	--	--	--	--
ACNC0028	N	>2,000	500	--	--	--	--	--	--	--	--	--
ACNC0029	N	>2,000	2,000	--	--	--	--	--	--	--	--	--
BCNC0006	N	>2,000	300	--	--	--	--	--	--	--	--	--
Samples from the Fantino quadrangle--continued												
AFTC0004	1,500	1,000	N	--	--	--	--	--	--	--	--	--
AFTC0043	N	500	N	--	--	--	--	--	--	--	--	--
AFTC0044	N	700	N	--	--	--	--	--	--	--	--	--
AFTC0045	N	1,500	N	--	--	--	--	--	--	--	--	--
AFTC0046	N	2,000	N	--	--	--	--	--	--	--	--	--

Table 5.--Spectrographic analyses of panned concentrate samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
AFTC0047	19 2 5	70 27 38	10.0	.10	1.00	>2.0	100	3	N	N	<20	>10,000	<2	N
AFTC0048	19 1 51	70 27 30	2.0	.70	3.00	>2.0	500	N	N	N	<20	>10,000	<2	N
AFTC0051	19 4 32	70 29 45	2.0	.30	2.00	>2.0	500	N	N	N	<20	700	<2	N
AFTC0052	19 4 39	70 29 54	1.5	.50	7.00	>2.0	500	N	N	N	<20	700	N	N
BFTC0004	18 54 18	70 29 45	2.0	.50	1.50	>2.0	300	N	N	N	<20	700	<2	N
BFTC0005	18 54 18	70 29 45	1.5	.30	1.00	>2.0	200	N	N	N	<20	700	<2	N
BFTC0042	19 4 40	70 29 54	3.0	.30	2.00	>2.0	500	N	N	N	<20	1,000	<2	N
EFTC0011	19 8 10	70 26 3	3.0	.50	2.00	.7	500	N	N	N	<20	500	<2	N
EFTC0016	19 9 44	70 29 44	1.5	.50	5.00	.5	1,000	N	N	N	<20	50	N	N
EFTC0020	19 9 32	70 29 53	1.5	.70	3.00	>2.0	700	N	N	N	20	3,000	<2	N
		Samples from the Jarabacoa quadrangle--continued												
AJBC0005	19 0 52	70 33 7	1.5	.20	1.00	>2.0	500	N	N	N	20	700	N	N
AJBC0006	19 0 46	70 32 27	1.0	.10	3.00	>2.0	300	N	N	N	20	200	<2	N
AJBC0007	19 0 39	70 32 18	2.0	.30	5.00	>2.0	1,000	N	N	N	<20	200	<2	N
AJBC0008	19 0 41	70 34 10	1.0	.15	1.00	>2.0	500	N	N	N	<20	200	<2	N
AJBC0053	19 5 10	70 30 25	1.5	.50	7.00	>2.0	500	N	N	N	20	1,500	<2	N
AJBC0054	19 5 47	70 31 1	1.5	1.00	7.00	>2.0	700	5	N	N	30	5,000	<2	N
AJBC0055	19 6 0	70 31 8	.5	.20	2.00	>2.0	200	N	N	N	<20	100	N	N
AJBC0030	19 0 47	70 35 17	.7	.05	5.00	>2.0	500	N	N	N	20	1,500	N	N
AJBC0031	19 7 36	70 35 47	.5	.10	1.00	>2.0	300	N	N	N	<20	200	N	N
AJBC0032	19 9 12	70 35 50	.7	.07	1.00	>2.0	300	N	N	N	<20	300	N	N
AJBC0034	19 6 27	70 35 7	1.0	1.00	5.00	1.5	500	N	N	N	N	200	N	N
AJBC0035	19 6 37	70 33 35	7.0	.50	5.00	2.0	500	N	N	N	<20	>10,000	N	N
AJBC0036	19 6 31	70 33 44	3.0	1.00	2.00	>2.0	700	N	N	N	150	500	N	N
AJBC0037	19 6 29	70 34 12	1.5	.30	5.00	>2.0	700	N	N	N	<20	150	<2	N
AJBC0039	19 8 56	70 33 55	5.0	.50	3.00	>2.0	200	N	N	N	<20	5,000	<2	N
AJBC0040	19 9 35	70 33 7	1.0	.30	3.00	>2.0	500	3	N	100	<20	100	<2	N
AJBC0041	19 7 57	70 32 6	1.0	.20	3.00	>2.0	500	N	N	N	<20	100	<2	N
BJBC0007	19 4 0	70 36 7	.3	.10	1.00	2.0	300	N	N	N	20	500	N	N
BJBC0008	19 4 4	70 34 7	.7	.15	1.00	2.0	300	N	N	N	<20	150	N	N
BJBC0009	19 4 9	70 34 4	1.0	.20	.50	>2.0	500	N	N	N	<20	100	N	N
BJBC0010	19 4 17	70 35 47	.5	.07	2.00	>2.0	300	N	N	N	20	300	<2	N
BJBC0011	19 4 26	70 35 52	1.5	.10	3.00	>2.0	300	N	N	N	<20	10,000	N	N
BJBC0038	19 9 21	70 34 7	2.0	1.50	5.00	>2.0	500	N	N	N	<20	>10,000	N	N
EJBC0033	19 3 55	70 37 15	.5	.05	2.00	>2.0	300	N	N	N	N	300	N	N

Table 5.--Spectrographic analyses of panned concentrate samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
AFTC0047	N	70	20	700	70	N	50	70	2,000	N	30	N	5,000	150	N	100
AFTC0048	N	10	150	2,000	100	N	150	20	15,000	N	150	N	1,000	3,000	N	200
AFTC0051	N	20	100	70	N	N	<50	30	N	N	20	N	200	200	N	30
AFTC0052	N	30	150	70	N	N	100	30	N	N	50	N	300	1,000	N	70
BFTC0004	N	20	100	70	N	N	50	30	20	N	20	N	N	200	N	30
BFTC0005	N	20	70	100	N	N	<50	30	50	N	10	70	200	150	N	20
BFTC0042	100	20	70	1,000	N	N	200	30	300	N	70	N	200	200	N	100
EFTC0011	N	20	700	30	N	N	N	30	30	N	30	N	N	300	N	20
EFTC0016	N	30	3,000	<10	N	N	N	500	2,000	N	<10	N	N	100	N	20
EFTC0020	N	20	700	30	N	N	N	100	50	N	15	N	N	700	N	20
Samples from the Jarabacoa quadrangle--continued																
AJBC0005	N	N	50	10	N	N	50	20	N	N	30	N	200	300	N	200
AJBC0006	N	N	20	200	N	N	N	20	700	N	100	N	200	700	N	500
AJBC0007	N	N	50	15	N	N	<50	10	30	N	50	N	200	300	N	500
AJBC0008	N	N	20	10	N	N	100	10	N	N	100	N	200	500	N	500
AJBC0053	N	30	70	100	N	N	200	30	70	N	100	N	N	1,500	N	100
AJBC0054	N	10	150	150	N	N	50	30	70	N	30	N	200	300	N	50
AJBC0055	N	N	50	10	N	N	N	20	N	N	15	N	200	70	N	30
AJBC0030	N	N	<20	N	N	N	<50	10	N	N	70	N	500	150	N	500
AJBC0031	N	N	30	N	50	N	<50	15	N	N	10	N	500	100	N	150
AJBC0032	N	N	30	10	N	N	100	15	N	N	15	N	500	100	N	100
AJBC0034	N	N	150	1,000	N	N	N	50	200	N	15	N	N	200	N	50
AJBC0035	50	70	50	700	N	N	N	100	100	N	10	N	1,000	100	N	50
AJBC0036	100	20	150	1,000	N	N	70	50	N	N	50	N	200	300	N	50
AJBC0037	N	N	150	20	N	N	50	20	N	N	20	N	700	200	N	50
AJBC0039	N	70	70	70	N	N	N	150	N	N	15	N	500	100	N	70
AJBC0040	N	10	200	150	N	N	50	30	300	N	10	N	300	300	N	30
AJBC0041	N	50	150	15	N	N	70	50	20	N	20	N	300	150	N	100
BJBC0007	N	N	<20	N	N	N	N	10	100	N	15	N	200	100	N	200
BJBC0008	N	N	<20	N	N	N	N	10	N	N	<10	N	200	150	N	20
BJBC0009	N	N	50	20	N	N	<50	20	30	N	30	N	N	200	N	50
BJBC0010	N	N	<20	N	N	N	<50	10	N	N	20	N	300	100	N	200
BJBC0011	N	10	<20	<10	N	N	50	10	N	N	50	N	500	200	N	200
BJBC0058	N	15	200	30	N	N	<50	100	N	N	10	N	700	200	N	30
EJBC0033	N	N	<20	N	N	N	N	20	N	N	100	N	200	150	N	500

Table 5.--Spectrographic analyses of panned concentrate samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P
AFTC0047	3,000	100	N	--	--	--	--	--	--	--	--	--
AFTC0048	1,500	1,000	N	--	--	--	--	--	--	--	--	--
AFTC0051	500	1,500	N	--	--	--	--	--	--	--	--	--
AFTC0052	N	2,000	N	--	--	--	--	--	--	--	--	--
BFTC0004	700	2,000	N	--	--	--	--	--	--	--	--	--
BFTC0005	1,500	2,000	N	--	--	--	--	--	--	--	--	--
BFTC0042	N	>2,000	N	--	--	--	--	--	--	--	--	--
EFTC0011	N	500	N	--	--	--	--	--	--	--	--	--
EFTC0016	N	>2,000	N	--	--	--	--	--	--	--	--	--
EFTC0020	N	1,000	N	--	--	--	--	--	--	--	--	--
Samples from the Jarabacoa quadrangle--continued												
AJBC0005	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0006	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0007	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0008	N	>2,000	500	--	--	--	--	--	--	--	--	--
AJBC0053	N	1,000	N	--	--	--	--	--	--	--	--	--
AJBC0054	N	1,000	N	--	--	--	--	--	--	--	--	--
AJBC0055	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0030	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0031	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0032	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0034	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0035	1,500	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0036	5,000	1,500	N	--	--	--	--	--	--	--	--	--
AJBC0037	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0039	N	>2,000	N	--	--	--	--	--	--	--	--	--
AJBC0040	N	2,000	N	--	--	--	--	--	--	--	--	--
AJBC0041	N	>2,000	N	--	--	--	--	--	--	--	--	--
BJBC0007	N	>2,000	N	--	--	--	--	--	--	--	--	--
BJBC0006	N	>2,000	N	--	--	--	--	--	--	--	--	--
BJBC0009	N	>2,000	N	--	--	--	--	--	--	--	--	--
BJBC0010	N	>2,000	N	--	--	--	--	--	--	--	--	--
BJBC0011	N	>2,000	N	--	--	--	--	--	--	--	--	--
BJBC0038	N	2,000	N	--	--	--	--	--	--	--	--	--
EJBC0033	N	>2,000	N	--	--	--	--	--	--	--	--	--

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
Samples from the Bonao quadrangle														
ABNR0009	18 51 46	70 27 3	15.00	7.00	10.00	1.000	1,500	N	N	N	<10	N	<1.0	N
ABNR0013	18 50 20	70 29 21	10.00	.30	<.05	.100	100	1.5	N	N	10	700	<1.0	N
ABNR0014	18 51 15	70 29 7	7.00	10.00	7.00	.500	700	N	N	N	15	200	N	N
ABNR0015	18 51 17	70 29 13	2.00	1.00	.70	.500	200	N	N	N	<10	200	<1.0	N
EBNR0010	18 51 38	70 27 3	15.00	7.00	10.00	.700	2,000	N	N	N	<10	<20	<1.0	N
EBNR0010	18 51 34	70 27 12	10.00	7.00	5.00	.500	1,500	N	N	N	N	30	N	N
EBNR0021	18 52 13	70 28 36	5.00	3.00	1.00	.700	700	.7	N	N	15	500	1.0	N
EBNR0022	18 52 3	70 28 55	10.00	7.00	7.00	1.000	1,000	N	N	N	10	3,000	1.0	N
EBNR0022	18 52 3	70 28 54	7.00	5.00	10.00	.700	2,000	N	N	N	<10	70	N	N
EBNR0024	18 53 20	70 28 0	2.00	1.50	.50	.300	700	N	N	N	10	300	<1.0	N
EBNR0024	18 53 14	70 27 52	2.00	1.00	1.00	.300	700	<.5	N	N	15	500	<1.0	N
EBNR0026	18 54 10	70 27 26	10.00	7.00	7.00	1.000	2,000	.7	N	N	10	20	<1.0	N
EBNR0042	18 52 22	70 28 42	3.00	1.00	10.00	.300	2,000	N	N	N	15	1,000	1.0	N
EBNR0060	18 52 42	70 29 30	7.00	1.50	1.50	1.000	700	2.0	N	N	70	300	1.0	N
Samples from the Constanza quadrangle														
CCNR0009	18 59 55	70 34 6	7.00	.20	.20	.500	150	N	N	N	10	50	<1.0	N
CCNR0010	19 57 2	70 37 11	10.00	2.00	3.00	.700	1,000	N	N	N	15	<20	<1.0	N
Samples from the Fantino quadrangle														
AFTR0004	19 1 10	70 27 37	5.00	5.00	1.00	.500	500	N	N	N	10	200	<1.0	N
CFTR0006	19 4 23	70 29 45	20.00	10.00	7.00	>1.000	3,000	N	N	N	10	20	N	N
CFTR0007	19 3 50	70 28 47	15.00	3.00	1.00	>1.000	1,000	N	N	N	15	300	<1.0	N
DFTR0007	19 1 50	70 28 52	1.00	.50	.10	.070	300	N	N	N	10	300	<1.0	N
DFTR0009	19 1 30	70 28 37	10.00	7.00	7.00	>1.000	2,000	N	N	N	<10	50	N	N
DFTR0013	19 1 42	70 28 23	10.00	10.00	.10	1.000	1,500	N	N	N	10	200	<1.0	N
DFTR0004	19 1 52	70 29 17	15.00	10.00	10.00	>1.000	2,000	N	N	N	10	200	N	N
DFTR0005	19 1 56	70 29 7	15.00	10.00	.50	1.000	2,000	1.0	N	N	<10	300	N	N
DFTR0006	19 2 0	70 29 5	15.00	7.00	10.00	>1.000	1,500	N	N	N	10	100	N	N
EFTR0007	19 2 7	70 29 51	7.00	1.50	.50	.200	1,000	2.0	N	N	15	70	<1.0	N
EFTR0008	19 7 6	70 32 7	10.00	>10.00	.07	.030	1,500	N	N	N	50	50	N	N
EFTR0011	19 8 10	70 26 0	5.00	1.00	.70	.200	500	N	N	N	10	70	<1.0	N
EFTR0014	19 7 8	70 26 48	10.00	7.00	1.50	.500	1,000	N	N	N	10	N	<1.0	N
EFTR0015	19 9 38	70 29 18	5.00	10.00	2.00	.150	700	N	N	N	15	N	<1.0	N
Samples from the Jarabacoa quadrangle														
AJBR0033	19 8 44	70 35 46	.07	<.02	<.05	.005	<10	N	N	N	<10	50	<1.0	N
AJBR0035	19 6 36	70 33 36	10.00	7.00	1.50	.200	2,000	N	N	N	10	N	N	N
AJBR0058	19 1 36	70 30 40	1.50	.10	3.00	.070	500	<.5	N	N	10	70	N	N
AJBR0059	19 1 36	70 30 40	7.00	2.00	5.00	.500	1,500	3.0	N	N	<10	150	N	N
AJBR0060	19 1 36	70 30 40	3.00	3.00	1.50	.500	1,000	N	N	N	<10	50	<1.0	N

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic

Sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
Samples from the Bonao quadrangle--continued																
ABNR0009	N	50	70	500	N	<5	N	100	15	N	50	N	100	500	N	20
ABNR0013	N	N	<10	30	N	5	N	10	20	N	5	N	N	30	N	10
ABNR0014	N	30	700	30	N	N	N	200	N	N	50	N	300	100	N	15
ABNR0015	N	7	<10	10	N	N	N	5	N	N	10	N	300	70	N	10
EBNRC010	N	30	300	200	N	N	N	70	10	N	50	N	100	500	N	20
EBNR0010	N	50	500	20	N	N	N	100	10	N	50	N	150	300	N	15
EBNR0021	N	20	70	100	30	N	<20	30	15	N	20	N	300	150	N	20
EBNR0022	N	50	1,500	70	N	N	N	500	10	N	30	N	200	150	N	10
EBNR0022	N	30	300	5	N	N	N	100	N	N	30	N	200	100	N	20
EBNR0024	N	7	10	10	20	N	N	5	N	N	10	N	100	50	N	15
EBNR0024	N	10	10	10	N	N	N	N	10	N	10	N	N	50	N	20
EBNR0026	N	30	500	150	N	N	N	150	15	N	50	N	N	300	N	20
EBNR0042	N	15	200	30	N	N	N	50	10	N	15	N	2,000	100	N	15
EBNR0060	N	20	50	100	N	N	N	50	15	N	20	N	100	200	N	15
Samples from the Constanza quadrangle--continued																
CCNR0009	N	5	20	10	30	15	N	N	10	N	10	N	200	50	N	10
CCNR0010	N	20	100	150	70	N	<20	70	15	N	15	N	300	150	N	20
Samples from the Fantino quadrangle--continued																
AFTR0004	N	20	50	100	N	20	N	30	10	N	20	N	300	200	N	20
CFTR0006	N	100	1,500	50	N	N	N	200	10	N	100	N	100	500	N	50
CFTR0007	N	30	15	70	70	N	<20	10	10	N	30	N	200	200	N	50
DFTR0007	N	N	10	20	30	N	N	N	N	N	5	N	N	<10	N	20
DFTR0009	N	50	700	150	N	N	N	200	10	N	50	N	N	500	N	20
DFTR0013	N	30	200	5	N	N	N	70	10	N	50	N	N	150	N	10
DFTR0004	N	50	1,000	300	N	N	N	200	10	N	70	N	100	200	N	20
DFTR0005	N	50	1,000	500	N	N	N	200	15	N	50	N	N	300	N	20
DFTR0006	N	50	1,000	500	N	N	N	200	10	N	50	N	100	300	N	20
EFTR0007	N	20	100	1,000	N	N	N	50	20	N	15	N	N	200	N	10
EFTR0008	N	50	5,000	10	N	N	N	5,000	10	N	10	N	N	50	N	N
EFTR0011	N	20	50	30	N	N	N	50	N	N	15	N	100	100	N	30
EFTR0014	N	30	200	70	N	N	N	100	10	N	30	N	200	300	N	20
EFTR0015	N	30	700	5	N	N	N	1,500	N	N	10	N	N	70	N	10
Samples from the Jarabacoa quadrangle--continued																
AJBR0033	N	N	N	N	N	N	N	N	N	N	N	N	N	<10	N	10
AJBR0035	N	50	2,000	20	N	N	N	100	N	N	50	N	N	200	N	10
AJBR0058	N	N	20	1,000	N	N	N	10	N	N	5	N	300	200	N	<10
AJBR0059	N	30	100	2,000	N	N	N	50	10	N	20	N	300	300	N	15
AJBR0060	N	30	100	100	N	N	N	70	N	N	20	N	100	200	N	15

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic

Sample	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SB-P
Samples from the Bonao quadrangle--continued													
ABNR0009	N	20	N	.05	N	N	210	<5	35	.25	N	N	N
ABNR0013	N	70	N	N	N	<0.00	25	<5	30	.30	N	N	N
ABNR0014	N	30	N	N	N	N	15	N	45	.05	.2	N	N
ABNR0015	N	100	N	N	N	N	<5	N	5	.05	N	N	N
EBNR0010	N	20	N	N	N	N	150	<5	45	.30	N	N	N
EBNR0010	N	20	N	N	.14	N	20	N	90	--	N	N	N
EBNR0021	N	100	N	N	N	N	80	5	60	.10	.3	N	1
EBNR0022	N	<10	N	N	N	N	5	N	10	.05	.2	N	N
EBNR0022	N	30	N	N	.02	N	5	N	70	--	.1	N	N
EBNR0024	N	100	N	N	N	N	55	N	40	.05	.2	N	N
EBNR0024	N	100	N	--	--	--	--	--	--	--	--	--	--
EBNR0026	N	50	N	N	.04	N	140	N	80	.20	.3	N	N
EBNR0042	N	100	N	--	--	--	--	--	--	--	--	--	--
EBNR0060	N	100	N	N	.08	40.00	60	5	55	.45	.3	N	1
Samples from the Constanza quadrangle--continued													
CCNR0009	N	100	N	N	<.02	N	<5	5	150	.05	.2	N	N
CCNR0010	N	200	N	N	<.02	N	90	N	55	.05	.3	N	N
Samples from the Fantino quadrangle--continued													
AFTR0004	N	100	N	.15	N	N	160	10	50	.30	N	N	<2
CFTR0006	N	50	N	N	<.02	N	30	N	100	.10	.3	N	N
CFTR0007	N	300	N	N	N	N	40	N	50	.05	.3	N	N
DFTR0007	N	70	N	N	N	N	130	N	65	.10	.1	N	N
DFTR0009	N	30	N	N	<.02	N	<5	5	35	.05	.4	N	N
DFTR0013	N	70	N	N	N	N	120	N	70	.05	.2	N	N
DFTR0004	N	50	N	N	N	N	30	N	50	.05	.2	N	N
DFTR0005	N	30	N	N	N	N	160	N	80	.10	.2	N	N
DFTR0006	N	30	N	N	<.02	N	190	<5	130	.20	.4	N	N
EFTR0007	N	<10	N	<.05	<.02	N	>1,000	50	100	1.00	N	N	N
EFTR0008	N	N	N	N	N	N	10	N	50	.05	.1	N	N
EFTR0011	N	70	N	N	<.02	N	100	<5	35	.30	N	N	N
EFTR0014	N	50	N	N	N	N	60	N	55	.05	.2	N	N
EFTR0015	N	N	N	N	N	N	10	N	35	.25	N	N	N
Samples from the Jarabacoa quadrangle--continued													
AJBR0033	N	N	N	N	N	N	130	5	140	.10	.4	N	N
AJBR0035	N	<10	N	N	N	N	10	N	20	.05	.1	N	1
AJBR0058	N	N	N	N	N	N	>1,000	N	10	.40	.2	N	N
AJBR0059	N	30	N	N	N	N	>1,000	<5	100	.85	.6	N	N
AJBR0060	N	30	N	N	<.02	N	75	N	65	.10	.4	N	N

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic

[L N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	LATITUDE	LONGITUD	
			Samples from the Bonao quadrangle--continued
ABNR0009	18 51 46	70 27 3	Pyrite bearing granodiorite
ABNR0013	18 50 20	70 29 21	Pyritic chert
ABNR0014	18 51 15	70 29 7	Tireo formation, meta-volcanic
ABNR0015	18 51 17	70 29 13	Tireo formation, meta-volcanic
EBNR0010	18 51 38	70 27 3	Fault gouge with secondary copper
EBNR0010	18 51 34	70 27 12	Duarte formation, meta-volcanic
EBNR0021	18 52 13	70 28 36	Quartz latite in Tireo formation
EBNR0022	18 52 3	70 28 55	Tireo formation, pyrite bearing meta-volcanic in shear zone
EBNR0022	18 52 3	70 28 54	Tireo formation, red shale
EBNR0024	18 53 20	70 28 0	Tireo formation, green pyrite bearing meta-volcanic
EBNR0024	18 53 14	70 27 52	Tireo formation, meta volcanic
EBNR0026	18 54 10	70 27 26	Tireo formation, metatuff, semischistose
EBNR0042	18 52 22	70 28 42	Tireo formation, meta volcanic
EBNR0060	18 52 42	70 29 30	Tireo formation, gossan in conglomerate
			Samples from the Constanza quadrangle--continued
CCNR0009	18 59 55	70 34 6	Granodiorite, weathered
CCNR0010	19 57 2	70 37 11	Mafic rock
			Samples from the Fantino quadrangle--continued
AFTR0004	19 1 10	70 27 37	Tireo formation, vesicular meta-andesite
CFTR0006	19 4 23	70 29 45	Mafic meta-volcanic
CFTR0007	19 3 50	70 28 47	Mafic meta volcanic
DFTR0007	19 1 50	70 28 52	Tireo formation, andesite or quartz porphyry
DFTR0009	19 1 30	70 28 37	Tireo formation, green tuff
DFTR0013	19 1 42	70 28 23	Tireo formation, laminated chert, conglomeratic
DFTR0004	19 1 52	70 29 17	Tireo formation, lapili tuff
DFTR0005	19 1 56	70 29 7	Tireo formation, shear zone in meta-volcanic
DFTR0006	19 2 0	70 29 5	Tireo formation, lapili tuff
EFTR0007	19 2 7	70 29 51	Tireo formation, pyritic lapili tuff
EFTR0008	19 7 6	70 32 7	Shear zone in peridotite
EFTR0011	19 8 10	70 26 0	Maimon formation, laminated vitric ash-flow tuff
EFTR0014	19 7 8	70 26 48	Maimon formation, laminated vitric ash-flow tuff
EFTR0015	19 9 38	70 29 18	Maimon formation, shear zone in diabase with talc
			Samples from the Jarabacoa quadrangle--continued
AJBR0033	19 8 44	70 35 46	Quartz vein in saprolite
AJBR0035	19 6 36	70 33 36	Pyroxenite
AJBR0056	19 1 36	70 30 40	Tireo formation, quartz vein with secondary copper
AJBR0059	19 1 36	70 30 40	Tireo formation, wall rock near quartz vein, secondary copper
AJBR0060	19 1 36	70 30 40	Tireo formation, gossan from quartz vein

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
AJBR0001	19 1 36	70 30 40	1.00	.50	.07	.150	300	N	N	N	<10	30	<1.0	N
BJBR0008	19 9 13	70 35 53	5.00	.15	<.05	.300	200	N	N	N	10	100	<1.0	N
BJBR0009	19 8 44	70 35 46	5.00	.05	N	.150	100	N	N	N	N	70	<1.0	N
BJBR0011	19 4 21	70 35 46	3.00	.50	1.00	.300	300	N	N	N	10	150	<1.0	N
BJBR0012	19 4 21	70 35 46	7.00	3.00	5.00	1.000	1,000	<.5	N	N	10	<20	<1.0	N
BJBR0013	19 5 8	70 35 53	7.00	.70	.30	1.000	200	N	N	N	10	500	1.0	N
BJBR0014	19 1 39	70 31 8	10.00	.50	<.05	1.000	300	N	N	N	20	20	<1.0	N
BJBR0015	19 1 39	70 31 8	10.00	.20	N	.700	1,000	N	N	N	15	N	<1.0	N
BJBR0016	19 1 39	70 31 8	10.00	.50	<.05	1.000	2,000	N	N	N	20	20	<1.0	N
BJBR0017	19 1 39	70 31 8	10.00	.50	.05	1.000	5,000	N	N	N	20	30	<1.0	N
BJBR0018	19 1 30	70 31 12	15.00	.70	<.05	>1.000	5,000	N	N	N	20	50	<1.0	N
BJBR0019	19 1 30	70 31 12	5.00	3.00	2.00	.500	1,000	N	N	N	<10	30	N	N
BJBR0020	19 1 29	70 31 9	10.00	.50	<.05	.700	200	<.5	N	N	15	20	<1.0	N
BJBR0021	19 1 29	70 31 10	10.00	.10	<.05	1.000	300	N	N	N	20	N	<1.0	N
BJBR0022	19 1 29	70 31 10	10.00	.15	<.05	1.000	2,000	N	N	N	15	20	<1.0	N
BJBR0023	19 1 32	70 31 12	3.00	.20	.20	.500	1,500	N	N	N	10	500	1.0	N
BJBR0024	19 1 30	70 31 14	2.00	.15	<.05	.500	1,500	N	N	N	10	20	<1.0	N
BJBR0025	19 1 30	70 31 14	7.00	3.00	1.50	.700	2,000	N	N	N	10	150	<1.0	N
BJBR0027	19 1 23	70 31 18	10.00	.70	.10	1.000	3,000	N	N	N	20	70	<1.0	N
BJBR0028	19 1 23	70 31 18	15.00	3.00	7.00	.500	2,000	20.0	N	N	20	5,000	<1.0	N
BJBR0029	19 1 20	70 31 22	10.00	.70	<.05	1.000	3,000	N	N	N	15	70	1.0	N
BJBR0030	19 1 15	70 31 27	15.00	.50	<.05	1.000	3,000	N	N	N	<10	50	<1.0	N
BJBR0031	19 1 8	70 31 26	10.00	1.00	<.05	>1.000	3,000	<.5	N	N	10	100	1.0	N
BJBR0032	19 1 6	70 31 17	15.00	10.00	10.00	1.000	2,000	N	N	N	10	70	<1.0	N
BJBR0033	19 1 6	70 31 18	15.00	7.00	.07	.700	2,000	3.0	N	N	<10	70	N	N
BJBR0034	19 1 7	70 31 19	15.00	.70	N	>1.000	2,000	N	N	N	30	50	<1.0	N
BJBR0035	19 1 7	70 31 22	>20.00	5.00	.50	.200	2,000	1.5	N	N	50	<20	<1.0	<10
BJBR0036	19 1 7	70 31 23	20.00	5.00	.50	>1.000	>5,000	N	N	N	30	200	<1.0	N
BJBR0037	19 1 8	70 31 25	15.00	7.00	3.00	1.000	5,000	N	N	N	20	<20	<1.0	N
BJBR0038	19 1 36	70 30 40	10.00	5.00	2.00	1.000	2,000	.5	N	N	<10	100	<1.0	N
BJBR0039	19 1 36	70 30 40	2.00	1.00	2.00	.200	1,000	N	N	N	10	70	N	N
BJBR0040	19 1 36	70 30 40	10.00	.70	10.00	.150	1,500	5.0	N	N	15	300	N	N
BJBR0043	18 51 56	70 29 34	15.00	.30	.15	.070	500	N	N	N	N	1,500	N	N
CJBR0017	19 2 17	70 30 59	3.00	.10	<.05	.300	500	N	N	N	10	70	1.0	N
CJBR0016	19 2 3	70 31 2	>20.00	1.00	<.05	>1.000	5,000	N	N	N	10	200	<1.0	N
CJBR0019	19 1 52	70 30 56	15.00	1.00	.10	>1.000	3,000	N	N	N	<10	200	<1.0	N
DJBR0018	19 7 19	70 31 45	>20.00	10.00	15.00	>1.000	2,000	N	N	N	10	70	<1.0	N
DJBR0019	19 7 15	70 31 38	>20.00	7.00	10.00	1.000	2,000	N	N	N	<10	50	<1.0	N
DJBR0020	19 6 52	70 31 10	10.00	5.00	3.00	>1.000	1,500	N	N	N	10	700	1.0	N
DJBR0022	19 7 6	70 32 8	15.00	7.00	5.00	.500	2,000	<.5	N	N	10	300	<1.0	N
DJBR0023	19 6 53	70 31 56	15.00	10.00	5.00	1.000	2,000	<.5	N	N	10	200	<1.0	N
DJBR0024	19 6 45	70 31 54	15.00	>10.00	7.00	.300	2,000	.5	N	N	<10	<20	N	N
DJBR0025	19 6 40	70 31 [illegible]	5.00	1.00	2.00	.200	500	N	N	N	10	500	1.0	N
DJBR0026	19 6 50	70 31 53	15.00	5.00	7.00	1.000	2,000	.5	N	N	10	200	<1.0	N
DJBR0027	19 6 44	70 31 44	20.00	1.00	<.05	1.000	1,500	<.5	N	N	<10	70	<1.0	N

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
AJBR0001	N	N	N	10	N	N	N	5	N	N	5	N	N	20	N	10
BJBR0008	N	5	150	50	N	N	N	70	N	N	20	N	N	200	N	N
BJBR0009	N	5	200	30	N	N	N	50	N	N	15	N	N	100	N	N
BJBR0011	N	10	<10	5	N	N	N	5	N	N	7	N	100	50	N	15
BJBR0012	N	30	70	30	20	N	N	20	N	N	30	N	300	200	N	20
BJBR0013	N	N	50	200	N	5	N	10	10	N	20	N	100	150	N	15
BJBR0014	N	10	700	30	N	N	N	100	10	N	50	N	N	200	N	<10
BJBR0015	N	30	300	100	N	N	N	100	10	N	50	N	N	300	N	<10
BJBR0016	N	50	300	7	N	N	N	200	10	N	50	N	N	200	N	<10
BJBR0017	N	30	200	30	N	N	N	150	10	N	70	N	N	500	N	30
BJBR0018	N	70	1,000	300	N	N	N	200	20	N	50	N	N	500	N	10
BJBR0019	N	20	200	100	N	N	N	70	N	N	30	N	100	200	N	15
BJBR0020	N	30	300	500	N	N	N	100	10	N	50	N	N	300	N	10
BJBR0021	N	N	500	100	N	N	N	70	10	N	30	N	N	300	N	10
BJBR0022	N	50	500	500	N	N	N	150	10	N	50	N	N	200	N	10
BJBR0023	N	30	300	100	N	N	N	100	10	N	30	N	N	200	N	50
BJBR0024	N	30	100	500	N	N	N	70	N	N	30	N	N	150	N	30
BJBR0025	N	30	700	100	N	N	N	150	10	N	50	N	N	200	N	20
BJBR0027	N	50	500	500	N	N	N	150	20	N	70	N	N	300	N	15
BJBR0028	N	30	200	>20,000	N	20	N	70	20	N	30	N	200	300	N	15
BJBR0029	N	30	200	700	N	N	N	100	30	N	50	N	N	200	N	70
BJBR0030	N	50	700	1,500	N	N	N	100	50	N	70	N	N	300	N	10
BJBR0031	N	30	150	500	20	N	20	300	50	N	50	N	N	200	N	50
BJBR0032	N	50	2,000	500	N	<5	N	500	10	N	70	N	150	300	N	30
BJBR0033	N	70	500	2,000	N	30	N	150	10	N	50	N	N	300	N	20
BJBR0034	N	50	1,500	300	N	N	N	200	15	N	100	N	N	300	N	20
BJBR0035	N	300	500	5,000	N	N	N	500	150	N	30	N	N	500	N	30
BJBR0036	N	150	2,000	2,000	30	N	N	500	50	N	100	N	N	500	N	50
BJBR0037	N	50	1,000	2,000	N	N	N	150	50	N	70	N	500	500	N	50
BJBR0038	N	30	300	300	50	N	N	70	20	N	30	N	300	300	N	30
BJBR0039	N	10	70	300	N	N	N	30	10	N	15	N	100	200	N	15
BJBR0040	N	20	100	20,000	N	N	N	50	15	N	20	N	700	500	N	20
BJBR0043	N	15	100	70	N	15	N	20	15	N	5	N	N	200	N	10
CJBR0017	N	20	50	20	20	N	20	50	10	N	20	N	N	70	N	50
CJBR0018	N	100	1,500	1,000	N	N	N	500	15	N	100	N	N	500	N	70
CJBR0019	N	50	700	300	N	N	N	100	10	N	70	N	N	500	N	30
DJBR0018	N	100	5,000	100	30	N	N	1,000	10	N	70	N	300	500	N	30
DJBR0019	N	50	5,000	30	N	N	N	700	10	N	50	N	100	500	N	20
DJBR0020	N	30	700	50	50	N	<20	300	15	N	30	N	500	150	N	30
DJBR0022	N	50	1,000	100	30	N	N	200	10	N	70	N	500	500	N	15
DJBR0023	N	50	1,500	100	30	N	N	300	10	N	50	N	300	300	N	15
DJBR0024	N	70	5,000	50	N	N	N	2,000	10	N	50	N	N	150	N	15
DJBR0025	N	20	30	30	N	N	N	20	N	N	15	N	1,000	70	N	N
DJBR0026	N	30	150	100	20	N	N	50	10	N	70	N	500	500	N	20
DJBR0027	N	50	1,000	150	30	N	N	500	15	N	70	N	N	300	N	15

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SB-P
AJBR0061	N	70	N	N	<.02	N	10	N	35	.10	.2	N	N
BJBR0008	N	70	N	N	.02	N	10	N	20	.05	.2	N	N
BJBR0009	N	30	N	N	.02	90.00	>1,000	45	70	3.00	.5	16	4
BJBR0011	N	150	N	N	N	N	60	<5	50	.05	.2	N	N
BJBR0012	N	100	N	N	N	N	35	5	40	.45	.2	N	N
BJBR0013	N	100	N	N	N	N	35	N	100	.15	.2	N	N
BJBR0014	N	30	N	N	.06	N	20	<5	70	.10	.2	N	N
BJBR0015	N	30	N	N	<.02	N	110	5	50	.05	.1	N	N
BJBR0016	N	30	N	N	.02	N	10	<5	140	.05	.2	N	N
BJBR0017	N	50	N	N	N	N	15	5	110	.10	.1	N	N
BJBR0018	N	50	N	N	.04	N	190	5	120	.05	.2	N	N
BJBR0019	N	20	N	N	N	N	130	N	55	.10	.2	N	1
BJBR0020	<200	30	N	N	.02	N	530	<5	200	.05	.4	N	<1
BJBR0021	N	50	N	N	.08	N	140	<5	35	.05	.2	N	<1
BJBR0022	N	20	N	N	<.02	N	550	<5	140	.05	.2	N	N
BJBR0023	N	20	N	N	.02	N	200	N	200	.05	.3	N	N
BJBR0024	N	20	N	N	.08	10.00	>1,000	<5	130	.30	.4	N	N
BJBR0025	N	30	N	N	.04	N	140	N	160	.05	.7	N	N
BJBR0027	N	50	N	N	.04	N	510	5	110	N	.4	N	N
BJBR0028	1,500	20	N	<.05	N	<10.00	>1,000	5	800	20.00	3.1	N	N
BJBR0029	N	20	N	N	<.02	N	760	20	200	.15	1.3	N	N
BJBR0030	300	70	N	N	.02	N	>1,000	15	210	.25	.4	N	N
BJBR0031	500	200	N	N	N	N	280	10	210	.15	.8	N	N
BJBR0032	N	50	N	N	<.02	N	180	N	80	.10	.3	N	N
BJBR0033	300	70	N	N	N	10.00	>1,000	5	200	1.20	.4	N	N
BJBR0034	N	70	N	N	.04	N	250	5	100	.10	.3	N	N
BJBR0035	2,000	20	N	.05	.02	90.00	>1,000	45	1,100	.60	3.3	8	N
BJBR0036	1,000	70	N	N	<.02	N	580	15	310	.10	.5	N	N
BJBR0037	1,000	50	N	N	N	N	1,000	15	530	.20	.9	N	N
BJBR0038	N	100	N	N	.04	N	160	10	100	.10	.4	N	N
BJBR0039	N	20	N	N	N	N	230	<5	30	.15	.3	N	N
BJBR0040	N	10	N	N	N	N	>1,000	5	30	3.20	1.1	N	N
BJBR0043	N	N	N	N	.08	70.00	50	N	45	.10	.4	N	N
CJBR0017	N	500	N	N	N	N	20	N	30	.05	.2	N	N
CJBR0018	N	50	N	N	.04	N	370	<5	180	.15	.3	N	N
CJBR0019	N	50	N	N	N	N	270	N	160	.10	.3	N	N
DJBR0018	N	70	N	N	N	N	95	N	30	.05	.3	N	N
DJBR0019	N	50	N	N	.02	N	40	N	40	.05	.3	N	N
DJBR0020	N	100	N	N	N	N	45	5	30	.10	.2	N	N
DJBR0022	N	50	N	N	N	N	90	<5	25	.05	.2	N	N
DJBR0023	N	50	N	N	.06	N	95	N	25	.05	.3	N	N
DJBR0024	N	10	N	N	N	N	10	N	40	.20	.2	N	N
DJBR0025	N	50	N	N	N	N	40	N	20	N	.3	N	N
DJBR0026	N	15	N	N	.04	N	95	N	45	.05	.2	N	N
DJBR0027	N	70	N	N	<.02	N	110	<5	65	N	.2	N	N

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	LATITUDE	LONGITUD	
AJBRC001	19 1 36	70 30 40	Tireo formation, quartz porphyry dike
BJBR0008	19 9 13	70 35 53	Red soil
BJBR0009	19 6 44	70 35 46	Quartz vein in saprolite
BJBR0011	19 4 21	70 35 46	Quartz vein with red iron oxide
BJBR0012	19 4 21	70 35 46	Tonalite, altered
BJBR0013	19 5 8	70 35 53	Quartz porphyry, iron oxide stained
BJBR0014	19 1 39	70 31 8	Tireo formation, red soil
BJBR0015	19 1 39	70 31 8	Tireo formation, red, clay rich soil
BJBR0016	19 1 39	70 31 8	Tireo formation, saprolite, manganese oxide stained
BJBR0017	19 1 39	70 31 8	Tireo formation, saprolite, manganese oxide stained
BJBR0018	19 1 30	70 31 12	Tireo formation, ochre orange soil
BJBR0019	19 1 30	70 31 12	Tireo formation, fragmented and weathered meta-volcanic
BJBR0020	19 1 29	70 31 9	Tireo formation, orange soil
BJBR0021	19 1 29	70 31 10	Tireo formation, orange, clay rich soil
BJBR0022	19 1 29	70 31 10	Tireo formation, orange-brown, clay rich soil
BJBR0023	19 1 32	70 31 12	Tireo formation, orange-ochre, clay rich soil
BJBR0024	19 1 30	70 31 14	Tireo formation, ochre soil
BJBR0025	19 1 30	70 31 14	Tireo formation, tan saprolite
BJBR0027	19 1 23	70 31 18	Tireo formation, Orange, clay rich saprolite
BJBR0028	19 1 23	70 31 18	Tireo formation, secondary copper coated float chips
BJBR0029	19 1 20	70 31 22	Tireo formation, brown, meta-volcanic, altered to clay
BJBR0030	19 1 15	70 31 27	Tireo formation, orange, clay rich saprolite
BJBR0031	19 1 8	70 31 26	Tonalite, brown iron oxide rich saprolite
BJBR0032	19 1 6	70 31 17	Tireo formation, tuff
BJBR0033	19 1 6	70 31 18	Tireo formation, hornfels with chlorite and quartz
BJBR0034	19 1 7	70 31 19	Tireo formation, orange, clay rich soil
BJBR0035	19 1 7	70 31 22	Tireo formation, fractured hornfels
BJBR0036	19 1 7	70 31 23	Tireo formation, iron oxide rich fractured hornfels
BJBR0037	19 1 6	70 31 25	Tireo formation, fractured hornfels
BJBR0038	19 1 36	70 30 40	Tireo formation, conglomerate
BJBR0039	19 1 36	70 30 40	Tireo formation, quartz-epidote vein with secondary copper
BJBR0040	19 1 36	70 30 40	Tireo formation, quartz-epidote vein with secondary copper
BJBR0043	18 51 56	70 29 34	Tireo formation, Meta-volcanic with iron oxide on fractures
CJBR0017	19 2 17	70 30 59	Tireo formation, meta-volcanic
CJBR0018	19 2 3	70 31 2	Tireo formation, meta-volcanic
CJBR0019	19 1 52	70 30 56	Tireo formation, meta-volcanic
DJBR0018	19 7 19	70 31 45	Green tuffaceous
DJBR0019	19 7 15	70 31 38	Quartz veins in green tuff
DJBR0020	19 6 52	70 31 10	Foliated mafic volcanic
DJBR0022	19 7 6	70 32 8	Pyroxenite
DJBR0023	19 6 53	70 31 56	Pyroxenite
DJBR0024	19 6 45	70 31 54	Pyroxenite
DJBR0025	19 6 40	70 31 50	Gneissic pyroxenite
DJBR0026	19 6 50	70 31 53	Diabase
DJBR0027	19 6 44	70 31 44	Soil sample in weathered pyroxenite

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BE	S-BI
DJBR0028	19 6 48	70 31 40	>20.00	5.00	.05	.300	1,000	N	N	N	10	1,000	1.0	N
DJBR0029	19 7 15	70 32 0	20.00	7.00	.70	.300	5,000	N	N	N	<10	100	<1.0	N
DJBR0030	19 6 45	70 31 [illegible]	15.00	2.00	1.00	.500	1,000	N	N	N	<10	150	<1.0	N
EJBR0002	19 1 17	70 31 20	1.00	.20	.20	.150	150	.5	N	N	10	300	1.0	N
EJBR0003	19 1 27	70 31 7	10.00	10.00	7.00	.500	2,000	<.5	N	N	10	200	N	N
EJBR0004	19 1 40	70 31 0	15.00	2.00	1.50	.300	1,500	7.0	N	N	N	50	<1.0	N
EJBR0005	19 1 40	70 30 46	7.00	7.00	7.00	.700	1,500	N	N	N	<10	20	<1.0	N
EJBR0019	19 9 4	70 30 50	15.00	5.00	7.00	1.000	1,500	N	N	N	10	50	N	N
EJBR0028	19 5 51	70 36 12	3.00	.70	2.00	.200	1,000	N	N	N	10	200	1.5	N
EJBR0028	19 5 51	70 36 12	7.00	5.00	7.00	.700	1,500	N	N	N	10	100	<1.0	N
EJBR0030	19 4 38	70 36 26	3.00	.70	1.00	.500	1,000	N	N	N	10	300	1.0	N
EJBR0032	18 52 42	70 29 30	5.00	1.00	2.00	.300	1,500	N	N	N	15	200	<1.0	N
EJBR0037	19 9 1	70 33 24	15.00	10.00	5.00	>1.000	2,000	N	N	N	<10	200	<1.0	N
EJBR0040	19 1 15	70 36 49	5.00	.70	3.00	.300	1,000	N	N	N	<10	200	<1.0	N
EJBR0047	19 9 13	70 33 58	7.00	5.00	1.00	.300	1,000	N	N	N	20	700	1.5	N
EJBR0052	19 8 29	70 33 56	10.00	3.00	5.00	>1.000	1,500	N	N	N	<10	300	1.0	N
EJBR0052	19 8 28	70 33 56	7.00	2.00	3.00	.300	1,500	N	N	N	10	700	1.0	N

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
DJBR0028	N	20	2,000	100	20	N	N	700	20	N	100	N	N	300	N	N
DJBR0029	N	70	1,500	150	N	N	N	200	20	N	>100	N	N	500	N	20
DJBR0030	N	20	700	500	N	N	N	200	10	N	50	N	100	200	N	10
EJBR0002	N	N	30	100	N	N	N	10	100	N	<5	N	N	30	N	10
EJBR0003	N	50	2,000	1,500	N	N	N	1,000	20	N	30	N	100	200	N	15
EJBR0004	N	30	500	300	N	N	N	100	10	N	30	N	100	300	N	15
EJBR0005	N	30	500	20	N	N	N	100	10	N	30	N	200	300	N	20
EJBR0019	N	50	200	200	N	N	N	100	10	N	70	N	300	500	N	30
EJBR0026	N	15	20	7	N	N	N	15	N	N	15	N	500	150	N	<10
EJBR0028	N	30	700	70	N	10	N	150	N	N	70	N	N	300	N	20
EJBR0030	N	10	15	30	N	5	N	10	10	N	15	N	300	100	N	20
EJBR0032	N	15	10	50	20	N	N	10	N	N	20	N	500	150	N	10
EJBR0037	N	50	2,000	70	20	N	N	2,000	10	N	50	N	200	200	N	30
EJBR0040	N	15	10	7	N	N	N	5	N	N	20	N	300	150	N	10
EJBR0047	N	30	200	200	N	N	N	50	N	N	20	N	500	200	N	15
EJBR0052	N	30	200	700	30	N	<20	100	10	N	30	N	500	500	N	20
EJBR0052	N	20	50	20	N	N	N	15	N	N	30	N	700	150	N	15

Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from theJayaco Concession Area, Dominican Republic--continued

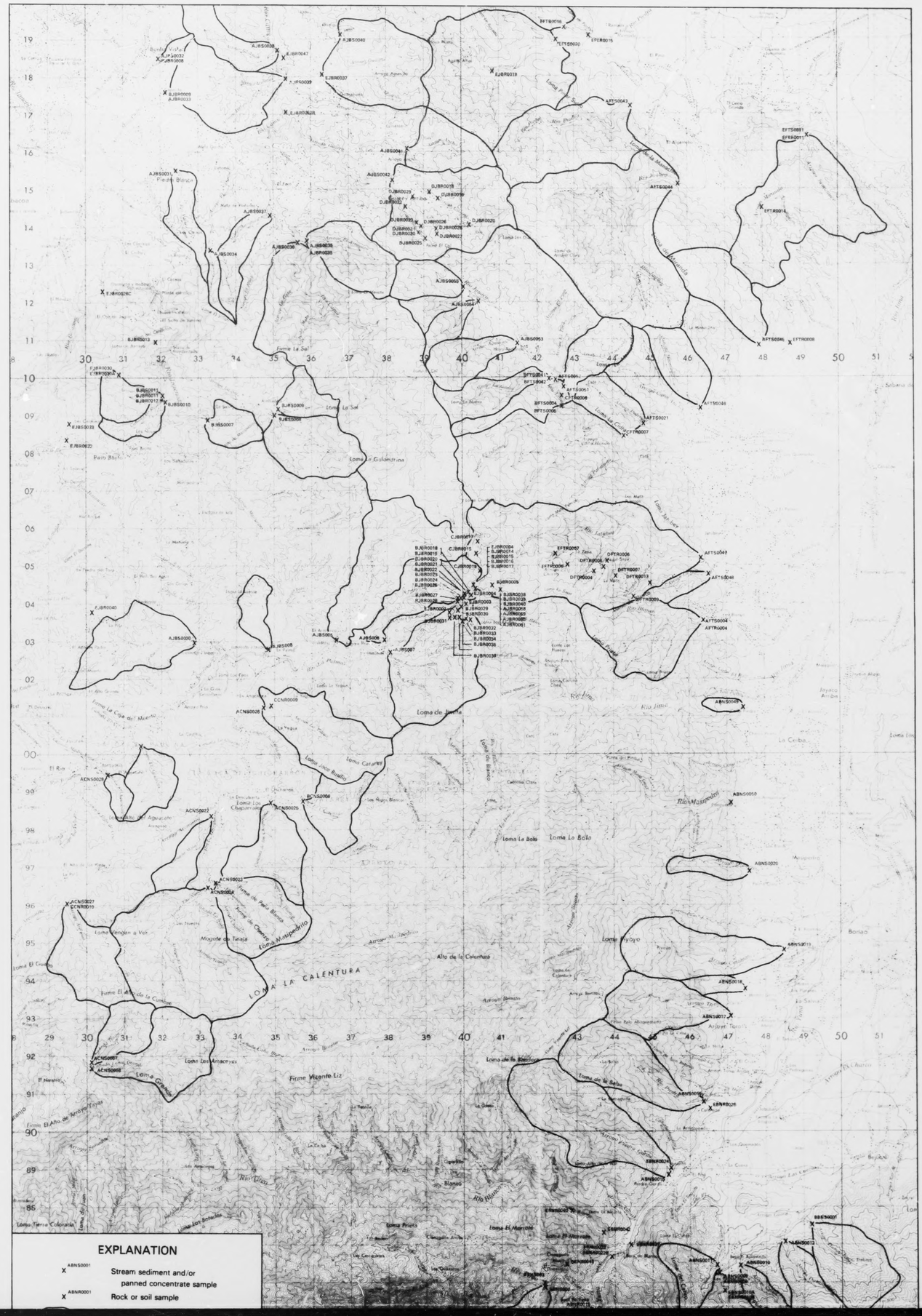
Sample	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SU-P
DJBR0028	N	30	N	N	<.02	N	65	N	75	.10	.2	N	N
DJBR0029	N	50	N	N	N	N	110	<5	90	.05	.2	N	N
DJBR0030	N	30	N	N	.04	N	200	N	60	.05	.2	N	N
EJBR0002	N	100	N	.20	N	N	130	70	<5	.35	N	N	N
EJBR0003	N	20	N	N	N	N	>1,000	10	70	.50	N	N	N
EJBR0004	N	10	N	N	<.02	N	260	<5	70	2.30	N	N	N
EJBR0005	N	50	N	N	.34	N	20	N	40	--	.1	N	N
EJBR0019	N	50	N	N	N	N	180	N	40	.05	.2	N	N
EJBR0028	N	30	N	N	.02	N	10	N	75	--	N	N	N
EJBR0028	N	50	N	--	--	--	--	--	--	--	--	--	--
EJBR0030	500	100	N	--	--	--	--	--	--	--	--	--	--
EJBR0032	N	70	N	N	.02	<10.00	60	N	45	.05	.2	N	1
EJBR0037	N	100	N	N	N	N	65	N	55	.05	.2	N	1
EJBR0040	N	30	N	N	.02	N	10	N	30	--	N	N	N
EJBR0047	N	30	N	--	--	--	--	--	--	--	--	--	--
EJBR0052	N	100	N	N	.02	N	550	N	50	.10	.2	N	N
EJBR0052	N	70	N	--	--	--	--	--	--	--	--	--	--

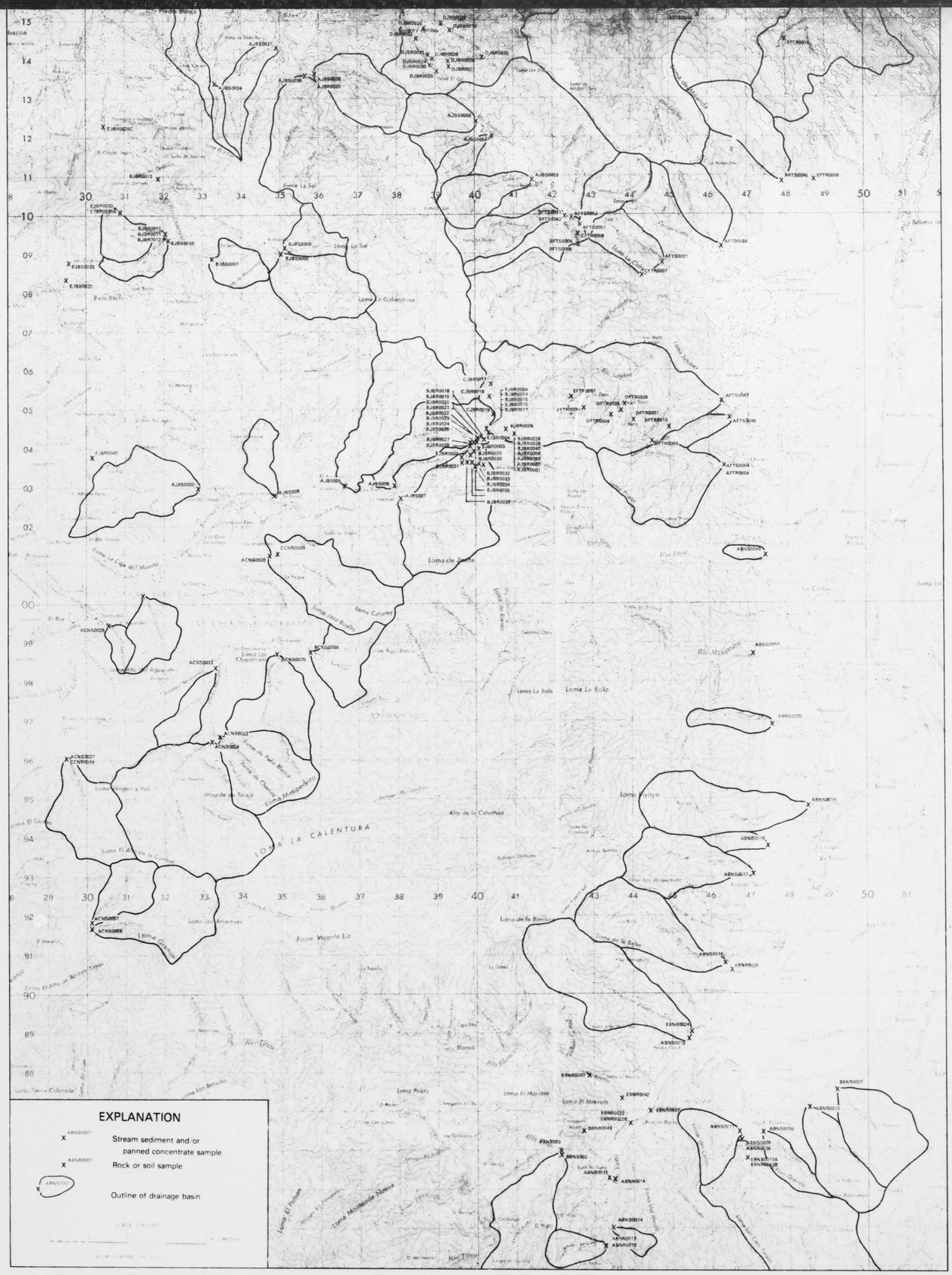
Table 6.--Spectrographic, atomic absorption analyses, and descriptions, of rock samples from the Jayaco Concession Area, Dominican Republic--continued

Sample	LATITUDE	LONGITUD	
DJBR0028	19 6 48	70 31 40	Soil and saprolite in weathered pyroxenite
DJBR0029	19 7 15	70 32 0	Soil and saprolite in weathered pyroxenite
DJBR0030	19 6 45	70 31 54	Soil and saprolite in weathered pyroxenite
EJBR0002	19 1 17	70 31 20	Quartz veins in leucocratic granitoid
EJBR0003	19 1 27	70 31 7	Green aphanite
EJBR0004	19 1 40	70 31 0	Tireo formation, lapili tuff
EJBR0005	19 1 40	70 30 46	Tireo formation, lapili tuff
EJBR0019	19 9 4	70 30 50	Duarte formation, schistose greenstone
EJBR0026	19 5 51	70 36 12	Lapili tuff
EJBR0026	19 5 51	70 36 12	Dike, red silicified
EJBR0030	19 4 36	70 36 26	Quartz porphyry dike, altered
EJBR0032	18 52 42	70 29 30	Greenstone dike
EJBR0037	19 9 1	70 33 24	Serpentine pebble conglomerate
EJBR0046	19 1 15	70 36 49	Tonalite
EJBR0047	19 9 13	70 33 58	Intrusive breccia
EJBR0052	19 6 29	70 33 56	Tuff
EJBR0052	19 6 28	70 33 56	Tonalite with epidote

DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
84-851
PLATE 1


Loma La Sal
Loma La Galandrina
Loma de Tierra
Loma Caturra
Loma Los Bodoques
Loma La Cruz del Muerto
Loma La Bola
Loma Mayoro
Loma Mariposario
Loma Verdejo a Vet
Loma Los Chaparrales
Loma Los Amacayas
Loma Grande
Loma de la Bandera
Loma de la Balsa
Loma Tierra Colorada
Loma Pinera
Loma El Marrón
Alto de la Calentura
LOMA LA CALENTURA
Firme Vicente Liz
Firme El Alto de la Cumbre
Firme El Alto de Arroyo Tayas
Firme de Pena Blanca
Firme de Chiquita
Mogote de Tinaja
Río Jimenoa
Río Blanco
Río Yuna
Río Masipedro
Río Jimenoa
Río Blanco
Río Yuna
Arroyo Blanco
Arroyo Tayas
Arroyo Bonito
Arroyo Tavera
Arroyo Tavera
Arroyo Bonito
Arroyo Blanco
Arroyo Blanco
Arroyo Blanco



MAP SHOWING LOCALITIES OF STREAM SEDIMENT, PANNED CONCENTRATE, AND ROCK SAMPLES IN THE JAYACO CONCESSION AREA, DOMINICAN REPUBLIC